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Order Online: Please visit our website at **www.braintreesci.com**.

New and current product listings, pricing, detailed product information, as well as frequently asked questions, are available at your fingertips.

Prices are subject to change. Check website for up to date pricing.

About the cover

This years 2025 Catalog Cover features environmental enrichment for laboratory rats and mice. Environmental enrichments are strategies that provide rats and mice with opportunities to engage natural species-appropriate behaviors including exploration of foreign objects, tunneling, nest building, and foraging for hidden food objects. Environmental enrichment products for rats and mice are featured in the 2025 Braintree Scientific Catalog.
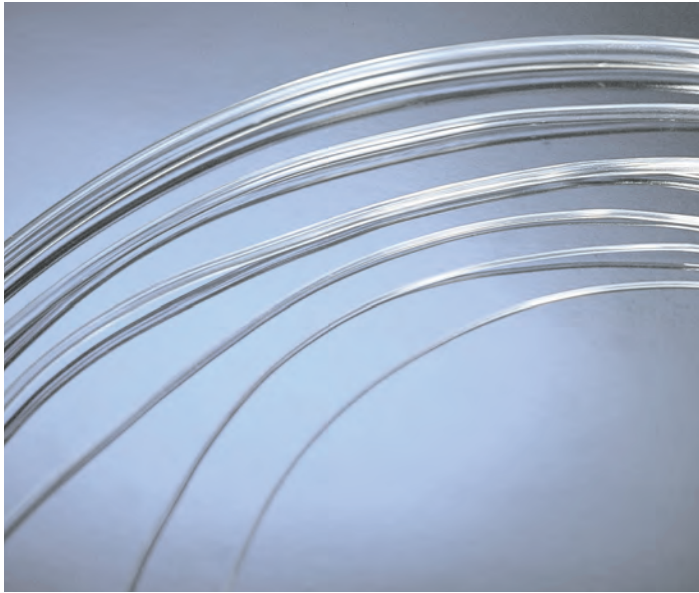
Scan to shop online at
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Find expanded product details and photos and our complete product offering on our website.

Micro-Renathane® Implantation Tubing

Reduces the probability of intravascular thrombosis

Polyurethane Catheter Tubing

Micro-Renathane®, exclusively from Braintree Scientific, is the most blood-compatible tubing ever made. For implantation studies in experimental animals this tubing offers extended catheter life and reduces the probability of intravascular thrombosis.

The scanning electron micrographs (approx. 10,000X) illustrate the dramatic difference between Renathane tubing and conventional vinyl tubing. After use in hemodialysis, Renathane showed significantly fewer surface deposits of platelets, proteins, trapped red cells and other blood elements than other tubings.

"Medical Grade" Plastics

It is appropriate to clarify the definition of the phrases "medical grade" plastic and "FDA approved" plastic. There is no approved "medical grade" plastic or resin. Each individual supplier has his own criteria for what polymer and additive combinations constitute suitability for medical use. Similarly, there is no "FDA approved" plastic or resin in the Code of Federal Regulations. Food and Drugs, Title 21, Part 121, the FDA has listed the additives allowable in plastics intended for food contact use. In formulating a PVC compound for medical use the manufacturer generally chooses plasticizers, stabilizers, antioxidants, colorants, etc., which are acceptable for food use.

Micro-Renathane® does not contain any plasticizers.

Medical Uses of Polyurethane

Polyurethane based polymers were introduced into the United States from Germany. Early biomedical applications of polyurethanes were described by Boretos and Pierce. They reported excellent vascular acceptability in experimental heart-assist pump chambers and arterial cannulae. In subsequent work Boretos reported the absence of acute toxicity for segmented polyurethanes. He also reported that polyurethane rings did not deteriorate or cause tissue reaction after implantation for 18 months. Lyman and coworkers have also investigated polyurethanes for the fabrication of heart-assist devices. Artificial heart devices were constructed of this material and implanted in calves. Other uses of polyurethanes as biomaterials have been described by Bruck. Polyurethane based polymers

are currently commercially employed in hollow fiber kidneys, vascular catheters and intra-aortic balloons. Due to the slightly higher cost of polyurethanes, they have only been used where exceptional biologic and blood compatibility is required.

Micro-Renathane® is sold only for experimental use in laboratory animals.

A brief report, with references, is included with each shipment of Micro-Renathane®. We will be pleased to send a copy upon request.

Supplied non-sterile. +/- .002.
Available in 50, 100, 200, 500 and 1000 foot lengths.

MODEL	OD/ID WALL
MRE-010	0.010" OD x 0.005" ID (0.25 OD x 0.12 ID mm)
MRE-025	0.025" OD x 0.012" ID (0.64 OD x 0.30 ID mm)
MRE-027	0.027" OD x 0.017" ID (0.69 OD x 0.43 ID mm)
MRE-030	0.030" OD x 0.017" ID (0.76 OD x 0.43 ID mm)
MRE-033	0.033" OD x 0.014" ID (0.84 OD x 0.36 ID mm)
MRE-037	0.037" OD x 0.023" ID (0.94 OD x 0.58 ID mm)
MRE-040	0.040" OD x 0.025" ID (1.02 OD x 0.64 ID mm)
MRE-040-S-20	0.040" OD x 0.020" ID (1.02 OD x 0.50 ID mm)
MRE-050	0.050" OD x 0.040" ID (1.27 OD x 1.02 ID mm)
MRE-065	0.065" OD x 0.030" ID (1.65 OD x 0.76 ID mm)
MRE-080	0.080" OD x 0.040" ID (2.03 OD x 1.02 ID mm)
MRE-080-S-38	0.080" OD x 0.038" ID (2.03 x 0.96 ID mm)
MRE-095	0.095" OD x 0.066" ID (2.41 OD x 1.68 ID mm)
MRE-160	0.160" OD x 0.091" ID (4.06 OD x 2.31 ID mm)

A Guide to Manufacture, Surgical Implantation, Maintenance and Use of Micro-Renathane® Vascular Catheters in Laboratory Animals

by Alfred Sherer, D.V.M. and Lewis Kinter, Ph.D.

This comprehensive manual includes how to manufacture catheters from Micro-Renathane® tubing, different implantation techniques, catheter use, and maintenance.

MODEL	
MRE-MANUAL	. . . . .Free Upon Request

RenaSil™ Silicone Rubber Tubing

RenaSil™ is a Platinum cured silicone tubing that is inert and contains no harmful leachable plasticizers. It is essentially non-reactive. The tubing will maintain its flexibility through a temperature range of -100°F to 500°F. Storage temperature and humidity have virtually no effect on silicone tubing, therefore shelf life is unusually long. This tubing may be autoclaved and re-sterilized without altering physical characteristics. RenaSil™ meets the standards of the US Pharmacopoeia, Class IV and CRF 21 Part 177.2600 for food additives. All sizes are packaged clean, without talc and sealed in polyethylene bags.

Supplied non-sterile in 25 ft. coils.

MODEL	OD/ID WALL
SIL025	0.025" OD x 0.012" ID (0.64 OD x 0.30 ID mm)
SIL037	0.037" OD x 0.025" ID (0.94 OD x 0.64 ID mm)
SIL047	0.047" OD x 0.025" ID (1.19 OD x 0.64 ID mm)
SIL065	0.065" OD x 0.030" ID (1.65 OD x 0.76 ID mm)
SIL080	0.080" OD x 0.040" ID (2.03 OD x 1.02 ID mm)

All prices subject to change without notice.

Polyethylene Tubing

Polyethylene is a relatively rigid polymer suitable for short-term catheterizations and for ex vivo applications. Polyethylene 'sleeves' can be slipped over less rigid catheter materials (Micro-Renathane™, Renasil™) at suture points to protect the latter from inadvertent constriction.

Supplied non-sterile.
Available in 50, 100, 200, 500 and 1000 foot lengths.

MODEL	OD/ID WALL
PE10	0.024" OD x 0.011" ID (0.60 x 0.28mm)
PE20	0.043" OD x 0.015" ID (1.09 x 0.38mm)
PE30	0.030" OD x 0.017" ID (0.76 x 0.43mm)
PE50	0.038" OD x 0.023" ID (0.965 x 0.58mm)
PE60	0.048" OD x 0.030" ID (1.22 x 0.76mm)
PE100	0.060" OD x 0.034" ID (1.52 x 0.86mm)

Tygon® Catheter Tubing

Flexible and clear; this tubing is ideal for cannulations. Easily fabricated to various catheter styles and virtually "kink free" when securing in a vessel and exiting the animal model. Material is less permeable than silicon rubber tubing and has a very smooth surface which inhibits thrombic events.

MODEL	OD/ID WALL	LENGTH
TYG-030	0.03" OD x 0.01" ID (0.8mm x 0.3mm)	50 ft. coil
TYG-060	0.06" OD x 0.02" ID (1.5mm x 0.5mm)	50 ft. coil
TYG-070	0.07" OD x 0.04" ID (1.8mm x 1.0mm)	50 ft. coil

PTFE Heat Shrink Tubing

(USP Class VI Approved)

Medical grade polyetrafluoroethylene tubing has high tensile strength and preserves high fidelity pressure waveforms with very small internal diameter tubing. PTFE heat shrink tubing can be shrink-fitted to make secure connections with other devices. 2-1 heat-shrink ratio.

Supplied non-sterile.

MODEL	EXP ID	REC ID	REC WALL	TOL
PTFE-018	0.038" ID (0.97mm)	0.018" ID (0.46mm)	0.009"	±0.002"
PTFE-039	0.060" ID (1.5mm)	0.039" ID (0.99mm)	0.012"	±0.003"

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PTFE Sub-Lite Wall® Tubing

A major breakthrough in micro-miniature tubing

(USP Class VI Approved)

Medical grade polyetrafluoroethylene tubing has superior lubricity and slides easily into tiny convoluted passages. No residue build-up inside tubing, non-toxic, non-contaminating, and easily sterilized (excluding Gamma). Compatible with tissues and fluids, yet withstands moisture, it is chemically inert and stable. Continuous service temperature (up to 500°F).

Supplied non-sterile.

MODEL	OD/ID WALL	THICKNESS	LENGTH
SUBL-060	0.006" x 0.002" (0.15 x 0.05mm)	0.002"	25 ft coil
SUBL-080	0.008" x 0.004" (0.20 x 0.10mm)	0.002"	25 ft coil
SUBL-120	0.012" x 0.006" (0.30 x 0.15mm)	0.003"	25 ft coil
SUBL-140	0.014" x 0.008" (0.36 x 0.20mm)	0.003"	25 ft coil

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RenaPulse™ High Fidelity Pressure Tubing

Measure blood pressure and waveforms more accurately, while keeping superb biocompatibility

RenaPulse™ tubing, exclusively from Braintree Scientific, transmits pulse waveforms with high fidelity. During pressure pulses, fluid flows into the catheter and depresses the diaphragm of a pressure transducer. However, the same pressure wave that reaches the transducer also causes the pressure catheter to bulge slightly. This bulging may allow a significant volume of fluid to flow in and out of the catheter with each pulse. Given the resistance of the catheter, this small flow can lead to pressure drop along the catheter and inaccurate pressure readings from the transducer. RenaPulse™ is a stiffer tubing which allows high fidelity measurement of systolic and diastolic pressures. Because air bubbles in pressure catheters are very 'soft,' they can completely distort the pulse wave. We make RenaPulse™ tubing transparent to help user locate and remove such bubbles. Small clots can block pressure catheters, and prevent pulse waves from reaching the transducer. Since RenaPulse™ has the superb blood compatibility of Micro-Renathane®, the chance of clot formation is greatly reduced.

These features make RenaPulse™ the tubing of choice for high fidelity pressure measurements in small animals. RenaPulse™ is flexible enough for direct vessel insertion. It can be bonded to luer lock terminations and stopcocks. RenaPulse™ can also be used with standard compression adapters or needle stubs.

Supplied non-sterile.
Available in 50, 100, 200, 500 and 1000 foot lengths.

MODEL	OD/ID WALL
RPT-015	0.015" OD x 0.012" ID (0.43 OD x 0.3 ID mm)
RPT-033	0.033" OD x 0.014" ID (0.84 OD x 0.36 ID mm)
RPT-037	0.037" OD x 0.023" ID (0.94 OD x 0.58 ID mm)
RPT-040	0.040" OD x 0.025" ID (1.02 OD x 0.64 ID mm)
RPT-080	0.080" OD x 0.040" ID (2.03 OD x 1.02 ID mm)

Stainless Steel Port Plugs

Stainless steel port plug, 0.5" length.

MODEL	DESCRIPTION	UNITS
PP-30	0.012" plug	1 dz
PP-28	0.014" plug	1 dz
PP-27	0.016" plug	1 dz
PP-23	0.025" plug	1 dz
PP-22	0.028" plug	1 dz
PP-21	0.032" plug	1 dz
PP-20	0.036" plug	1 dz
PP-19	0.042" plug	1 dz

Stainless Steel Connectors

Stainless steel tubing connectors, 0.5".

MODEL	GAUGE	UNITS
C-30	30ga	1 dz
C-28	28ga	1 dz
C-27	27ga	1 dz
C-23	23ga	1 dz
C-22	22ga	1 dz
C-21	21ga	1 dz
C-20	20ga	1 dz
C-19	19ga	1 dz
C-18	18ga	1 dz

Rat Vascular Catheters

Vascular catheters have stood the test of time because they are *affordable* and *they work!* These catheters, modified from the original design of Tinsley (1983), are fabricated from medical grade polyethylene (PE) tubing and silicone tubing. When filled with a viscous catheter lock solution they maintain a very high rate of patency for several weeks. They can be sealed with a stainless steel plug. Both the thoracic and femoral models have the following features:

Externalized polyethylene (PE) tubing catheter port:
Flared for easy access with a blunted 23 ga. hypodermic needle for sampling or infusion. Port is sealed with 0.025" diameter stainless steel plug when not in use. Catheter port is designed to exit between the scapulae and to be secured with a single Autoclip® 9 mm stainless steel wound clip.

Polyethylene (PE) tubing catheter body: The rigidity of polyethylene (PE) tubing minimizes the incidence of catheter lumen constriction and relaxation, an "eye dropper" effect, which allows blood to enter the intravascular tip. All catheter anchor points allow for suturing around the polyethylene (PE) tubing minimizing the likelihood of suture induced catheter lumen constriction.

Silicon intravascular tip: For reducing intravascular thrombus formation.

Reduced diameter intravascular tip: Reducing the inner diameter of the intravascular tip relative to the inner diameter of the port allows for efficient expulsion of blood from the intravascular tip. The last step following catheter implantation or use should be to advance the stainless steel plug into the port for a few millimeters. This is sufficient to expel trace amounts of blood from the intravascular tip with a minimum amount of catheter lock solution entering the bloodstream.

Thoracic Model

Suitable for blood sampling and/or drug infusion in either the jugular vein or carotid artery of the rat. When cannulating the jugular vein, the catheter tip should reside at the entrance of the right atrium (Waynforth and Flecknell, 1991). When cannulating the carotid artery, the catheter tip should reside within the descending aortic arch (Waynforth and Flecknell, 1991).

RAT THORACIC

MODEL	DESCRIPTION	CATHETER TIP LENGTH	TOTAL LENGTH
R-JVC-STD	Rat Thoracic Jugular Vein	32mm	65mm
R-CAC-STD	Rat Thoracic Carotid Artery	26mm	65mm
R-JVC-M37-R	Rat Thoracic Jugular Vein, Rounded Tip	32mm	115mm
R-CAC-M37-R	Rat Thoracic carotid Artery, Rounded Tip	26mm	115mm
PP-23	Stainless Steel, 0.025" dia. port plug (dozen)		

Femoral Model

Suitable for blood sampling and/or drug infusion in either the femoral artery or femoral vein. The femoral catheter is available in three different sizes of catheter body length.

RAT FEMORAL

MODEL	DESCRIPTION
R-FC-L	Rat Femoral Vein/Artery Catheter, Large (160-170m)
R-FC-M	Rat Femoral Vein/Artery Catheter, Medium (140-150mm)
R-FC-S	Rat Femoral Vein/Artery Catheter, Small (120-130mm)
R-FC-M37-R-L	Rat FemoralVein/Artery Catheter, Rounded Tip, Large (230mm)
R-FC-M37-R-M	Rat Femoral Vein/Artery Catheter, Rounded Tip, Medium (210mm)
R-FC-M37-R-S	Rat Femoral Vein/Artery Catheter, Rounded Tip, Small (190mm)
PP-23	Stainless Steel, 0.025" dia. port plug dozen . . . .

Mouse Vascular Cathers

These catheters are similar in design to our rat vascular catheters and have the following specifications.

Mouse Jugular Vein & Carotid Artery

► Mouse jugular vein intravascular tippet consists of SIL025 with a suture anchor point 13 mm from catheter tip
► Mouse carotid artery intravascular tippet consists of PE10 with a suture anchor point 11 mm from catheter tip, tapered for easier insertion into carotid artery lumen
► Catheter body consists of PE10, 25 mm length
► Catheter port consists of PE50, 15 mm length attached perpendicular to catheter body
► Catheter port external end is flared and accepts 23 ga. blunted catheter needles (N-23) for access or 23 ga. wire (23-PLUG) for closure

MOUSE THORACIC

MODEL	DESCRIPTION	CATHETER TIP LENGTH	TOTAL LENGTH
M-JVC-STD	Mouse Thoracic Jugular Vein	13mm	25mm
M-CAC-STD	Mouse Thoracic Carotid Artery	11mm	25mm
PP-23	Stainless Steel, 0.025" dia. port plug (dozen)		

Mouse Femoral Artery/Vein

► Intravascular tippet consists of PE10 with a suture anchor point 9 mm from catheter tip, tapered for easier insertion into blood vessel lumen
► Catheter body consists of PE10, 45 mm length
► Catheter port consists of PE50, 15 mm length attached inline to catheter body
► Catheter port external end is flared and accepts 23 ga. blunted catheter needles (N-23) for access and 23 ga. wire (23-PLUG) for closure

MOUSE FEMORAL

MODEL	DESCRIPTION
M-FC-STD	Mouse Femoral Vein/Artery Catheter, catheter body length 45mm
PP-23	Stainless Steel, 0.025" dia. port plug (dozen)

All prices subject to change without notice.

Sentinel Nord Pre-Clinical Catheters

Preclinical catheters for imaging in mice and rats. All catheters feature a user-friendly butterfly design with an easy-grip mechanism, facilitating precise tail cannulation procedures. Each catheter is individually tested for leaks and obstructions using PBS, sterilized with UV light, and packaged separately to ensure optimal efficiency and sterility preservation. A unique 30G butterfly catheter, available in 27G and 25G sizes, with a customized tube length of 25" (63.5 cm) is specifically designed for imaging systems. This extended length allows for dynamic studies with the animal inside the system while keeping the tube end accessible for injection purposes in any of the MR, PET, PET/MR, PET/CT, BLI... Solutions systems. The PE10 tubes have an inner diameter of 0.28 mm, ensuring a minimal dead volume (needle (30G or 27G) + tube) of only 66 microliters. This feature not only optimizes cost-effectiveness but also minimizes operator radiation exposure during imaging studies.

MODEL	DESCRIPTION
PC25- 8PE50	PE50, 25g needle/25g connector, 8" L
PC25- 25PE50	PE50, 25g needle/25g connector, 25" L
PC27- 8PE10	PE10, 27g needle/25g connector, 8" L
PC27- 25PE10	PE10, 27g needle, 25g connector, 25" L
PC27- 8PE50	PE50, 27g needle/25g connector, 8" L
PC27- 25PE50	PE50, 27g needle, 25g connector, 25" L
PC29- 8PE10	PE10, 29g needle, 30g connector, 8" L
PC29- 25PE10	PE10, 29g needle, 30g connector, 25" L
PC30- 8PE10	PE10, 30g needle, 30g connector, 8" L
PC30- 25PE10	PE10, 30g needle, 30g connector, 25" L

## Long Tail Butterfly Catheters, 30g

Also available is the "LT" version that offers a registered adaptation of conventional catheters called: Long Tail Butterfly (LTButterfly™), where the catheter, regardless of its length or needle size, includes a "tail" that securely attaches to the animal's tail once the cannulation is done. This innovative design prevents catheter displacement or movement during transfer to the imaging bed or any other procedure, thus ensuring reliable and consistent results while enhancing animal welfare.

MODEL	DESCRIPTION
PC-LT- 8PE10	30g Long Tail Butterfly, PE10, 30g connector, 8" L
PC-LT- 25PE10	30g Long Tail Butterfly, PE10, 30g connector, 25" L

Intravenous Osmotic Pump Catheter

M-JVC-AP

R-JVC-AP
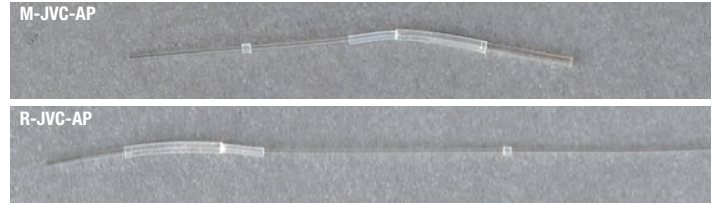
Braintree Scientific's Micro-Renathane® based catheter for continuous, intravenous (via the jugular vein) administration of drug solutions delivered with the ALZET® Osmotic Pump. Catheter can be modified for infusion via other blood vessels (please inquire).

Supplied non-sterile

MODEL	DESCRIPTION
R-JVC-7710	Rat Intravenous Osmotic Pump Catheter
M-JVC-7700	Mouse Intravenous Osmotic Pump Catheter

Tail Vein Infusion Catheter

Most researchers use butterfly needles to administer fluids via the tail vein allowing access for both timed injections and repeated bolus administration.

The MTV-1 system incorporates a small catheter that is easily inserted into the tail vein and will remains insitu in a restrained mouse for as long as restraint is feasible. Catheter size and flexibility minimizes tail vein trauma, allowing for long term and repeated bolus dosing. By avoiding damage associated with indwelling needles there is an increased chance that the tail vein will remain viable for the duration of the study.

MTV-2, MTV-2S, MTV-3 catheters are used for researchers that use small bore MRI machines or that need extra length for long bore magnets.

► Eliminates the need for an assistant
► Reduces setup and procedure time
► Provides superior control and improves visualization

MODEL	DESCRIPTION
MTV-1	Tail Vein Infusion Catheter 10cm of 28ga (0.014" x 0.007") connected to 7" of (0.033" x 0.014") with stylette and 23ga thin wall needle
MTV-2	10cm of 28ga (0.014" x 0.007") connected to 20" of (0.033" x 0.014") and 23ga thin wall needle, no stylette
MTV-2S	10cm of 28ga (0.014" x 0.007") connected to 20" of (0.033" x 0.014") with stylette and 23ga thin wall needle
MTV-3	10cm of 28ga (0.014" x 0.007") connected to 31.5" of (0.033" x 0.014") and 23G thin wall needle, no stylette

More options available online at braintreesci.com

Mouse 29ga Tail Vein Catheter

► Catheter Length: 266mm
► Tip Length: 12.5mm
► Gauge: 29ga
► Material: Nylon
► Lumen OD: 1F
► Beads: 0
► Lumens: 1

| MODEL	DESCRIPTION
CA-0099EO	Mouse 29ga Tail Vein Catheter

Micro Cannula System

The Micro Cannula System provides quick and convenient access to an artery or vein in small animals such as mice and rats. The tapered design of the PFA tubing provides strength while maintaining a very small distal tip of 0.016" OD x 0.008" ID. The sharpened stylette and beveled tip provides easy insertion into any vessel. Total length is approximately 10cm not including the stylette.

MODEL	DESCRIPTION
MC-28	Micro Cannula System

32ga Mouse Catheter System
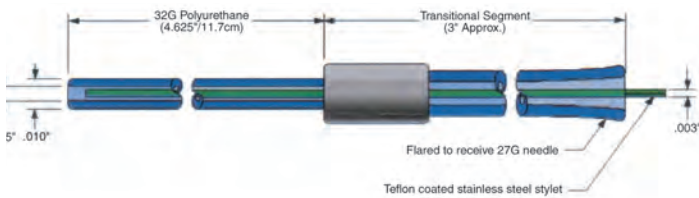
Ultra-thin diameter catheters for applications in mice:

This 32ga murine catheter is a key component of a withdrawal/delivery system specifically developed for use in mice and other small research animals. Its material and small size produces a minimally reactive catheter, thereby reducing catheter-induced artifacts that could obscure experimental observations. Suitable for cardiovascular, intracranial, and other applications.

Includes:
► 11.7cm 32ga (0.010" OD/0.005" ID) polyurethane catheter
► Bonded connection assembly flared to accept a 27ga needle
► 0.003" diameter Teflon®-coated stainless steel stylet
► Individually packaged

MODEL	DESCRIPTION
CS-32	32ga Intracranial Catheter System

Intrathecal Catheter

Braintree Scientific's rat intrathecal catheter offers a means for the administration of microliter amounts of drug solution to the lumbar (or higher) region of the rat spinal cord. This catheter system is ideal for use in antinociceptive studies involving rats.

MODEL	DESCRIPTION
R-ITC	Intrathecal Catheter

Mouse Intravascular Catheter

Designed for quick and easy insertion into arteries and veins of mice and rats (primarily mice).

Supplied sterile.

MODEL	DESCRIPTION	SIZE	TIP OD	TIP ID	MATERIAL
MC-0189EO	Mouse Catheter	28ga, 60mm	.014"	.007"	PU

Stereotaxic Brain Lesioning Cannula

These stainless steel cannulae are designed to fit in slotted acrylic stereotaxic clamping devices and are ideal for administering chemical solutions to discrete areas of the rat and mouse brain.

► Cannula consists of a 60mm length of 30ga stainless steel hypodermic tubing with a 45mm overlapping sleeve of 23ga stainless steel tubing to facilitate secure placement by the stereotaxic clamping device
► Tip of the cannula consists of exposed 30ga stainless steel hypodermic tubing, 10mm long
► Cannula comes with an 18" length of Tygon tubing with an end designed to fit over a micro syringe needle tip

MODEL	DESCRIPTION
RM-SBL	Stereotaxic Brain Lesioning Cannula

Double Lumen Catheters

CR-DL28: Double lumen intracranial catheter system contains an 11.7cm 28g (0.025" OD distal portion/0.007" ID each lumen) polyurethane catheter, a bonded connection assembly flared to accept a 27ga needle, a 0.003" diameter Teflon®-coated stainless steel stylet to facilitate placement. Individually packaged. Supplied non-sterile.
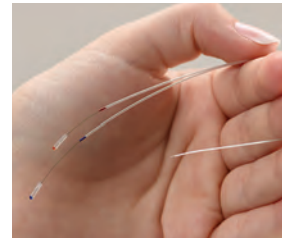
CR-DL32: Double lumen intracranial catheter system contains an 11.7cm 32ga (0.018" OD distal portion/0.005" ID each lumen) polyurethane catheter, a bonded connection assembly flared to accept a 32ga needle, a 0.003" diameter Teflon®-coated stainless steel stylet to facilitate placement. Individually packaged. *Supplied non-sterile.*

MODEL	DESCRIPTION
CR-DL28	11.7cm 28ga/0.007" ID
CR-DL32	11.7cm 32ga/0.005" ID

Bile Duct Catheter

For bile duct collection in rats, with a fine diameter tip (MRE-025).

MODEL	DESCRIPTION
BDC-R	Rat Bile Duct Catheter

Rat "Y" Connector Catheter

"Y" Connector Catheter is designed to be used with a syringe pump for infusion and withdrawal of fluids. Primarily used to adapt two osmotic pumps to one catheter line.

► Catheter Length: 40mm
► Tip Length: 18mm
► Gauge: 2F
► Material: PU
► Lumen OD: 2F
► Beads: 1
► Lumens: 3

Supplied sterile.

MODEL	DESCRIPTION
Y-0225EO	Rat "Y" Connector Catheter

Vein Pick

Holds vessel open during cut-down catheter insertion procedure. Tapered tip of vein pick is inserted into incision of vessel. Catheter slides under groove on underside of vein pick into vessel.

MODEL	DIMENSIONS	UNITS/PK
VP-10	Tapered Tip Vein Pick	10
VP-5	Tapered Tip Vein Pick	5

Skin Buttons

Rodent Skin Buttons are used for externalizing a catheter or for an attachment of a spring tether to the animal as an alternative to the harness or jacket. The advantage of a skin button is lower chance of infection, secure catheter anchoring and the ability to keep the catheter away from the animal. The silicone sleeve is the perfect size for most standard rodent tethers and the 1" Dacron Mesh allows for suture attachment and tissue ingrowth.

MODEL	DESCRIPTION
SBD-01	Skin Button with Dacron Mesh
SBD-02	Skin Button with Dacron Mesh and Silicone Sleeve
SBD-M2	Skin Button with Dacron Mesh for Mice

Humaneway Blood Collection Needles

The set includes 50 Disposable Blood Collection Needles for laboratory animals (mainly for mice and rats) to be used by connecting to capillary tubes of 1.8mm(±0.1mm).

Blood samples can be collected by the natural flow of the blood through capillary action in a closed system. The closed system allows humane procedures, improves quality of samples, and boosts research efficiency.

MODEL	DESCRIPTION
HW-BS	50/pk

Humaneway Injection and Blood Collection Needles

The set includes 100 disposable needles for performing injections and blood collection on laboratory animals (mainly for mice and rats). They can be connected to any type and size capillary tubes or syringes.

Blood can be collected by the natural flow of the blood through capillary action in a closed system. The closed system allows humane procedures, improves quality of samples, and boosts research efficiency.

MODEL	DESCRIPTION
HW-BI	100/PK

Sharp Tip Catheter Needles

Ultra-sharp, tri-beveled, anti-coring, stainless steel needle. Translucent, color-coded luer lock hub.

Supplied sterile.

MODEL	GAUGE/LENGTH	UNITS/PK
NS-30-05	30ga - 0.5"	100
NS-27-05	27ga - 0.5"	100
NS-25-1	25ga - 1"	100
NS-23-1	23ga - 1"	100
NS-22-1	22ga - 1"	100
NS-21-1	21ga - 1"	100
NS-20-1	20ga - 1"	100
NS-18-1	18ga - 1"	100

Blunt Tip Catheter Needles

Stainless steel, blunt tip, hypodermic needle with standard luer hub. For use as an interface to connect a hypodermic syringe directly to catheter port for intravascular substance administration, blood sampling and catheter flushing.

MODEL	GAUGE/LENGTH	UNITS
NB-30-05	30ga - 0.5"	1 dz
NB-27-1	27ga - 1"	1 dz
NB-26-05	26ga - 0.5"	1 dz
NB-25-1	25ga - 1"	1 dz
NB-23-1	23ga - 1"	1 dz
NB-22-05	22ga - 0.5"	1 dz
NB-22-1	22ga - 1"	1 dz
NB-21-1	21ga - 1"	1 dz
NB-20-1	20ga - 1"	1 dz
NB-18-1	18ga - 1"	1 dz

Zero and Minimal Dead Volume Syringes

Z1-22 Zero Dead Volume

Z1-MDV-CC Minimal Dead Volume

Zero dead volume sterile syringes offer researchers the ability to completely remove all fluid from the syringe for zero test article or blood loss.

MODEL	DESCRIPTION	UNITS/PK
Z1-22-PK	1cc Zero Dead Volume Syringe with 22ga connector . . .	25
Z1-22-CS	1cc Zero Dead Volume Syringe with 22ga connector . . .	100
Z1-CC	1cc Zero Dead Volume Syringe without connector	10
SY1-10S	1cc Minimal Dead Volume Syringe without connector . .	10

Straight Non-Coring Huber Needles

Great for dosing or sampling. Use with an access port or injection cap. Special point allows for greater septum life.

MODEL	GAUGE/LENGTH	UNITS/PK
H22-75	22ga - 0.75"	25

All prices subject to change without notice.

Prefilled Syringes

Prefilled syringes for flushing, locking or sampling through any catheter or port system. Order as needed in convenient, ready to use packaging. Syringe sizes range from 1cc-60cc with volumes from 0.2ml-60ml.

Prefilled syringes can be filled with most any solution including saline, heparin/saline, dextrose, heparin/dextrose, and many others.

MODEL	SYRINGE SIZE	FILL VOL	HEPARIN	UNITS/CS
Saline (0.9%) Filled Syringe				
SYS-1-0.5	1cc	0.5cc	–	300
SYS-1-1	1cc	1cc	–	300
SYS-3-2	3cc	2cc	–	300
SYS-3-3	3cc	3cc	–	300
SYS-5-3	5cc	3cc	–	300
SYS-5-5	5cc	5cc	–	300
SYS-10-10	10cc	10cc	–	90
SYS-60-60	60cc	60cc	–	15
Heparin & Saline Filled Syringes				
SYH-50-0.5	1cc	0.5cc	50u/ml	300
SYH-50-1.0	1cc	1cc	50u/ml	300
SYH-50-2.0	3cc	2cc	50u/ml	300
SYH-50-3.0	3cc	3cc	50u/ml	300
SYH-100-1.0	1cc	1cc	100u/ml	300
SYH-100-2.0	3cc	2cc	100u/ml	300
SYH-100-3.0	3cc	3cc	100u/ml	300
SYH-300-0.5	1cc	0.5cc	300u/ml	300
SYH-300-1.0	1cc	1cc	300u/ml	300
SYH-300-2.0	3cc	2cc	300u/ml	300
SYH-300-3.0	3cc	3cc	300u/ml	300
SYH-500-1.0	1cc	1cc	500u/ml	300
SYH-500-2.0	3cc	2cc	500u/ml	300
SYH-500-3.0	3cc	3cc	500u/ml	300

Blunt Needles with Syringe

Attached blunt needles on 1cc syringes not only save tremendous amounts of time but will also help lower costs.

Additional size syringes are available and can be supplied with any size blunt needle. All syringes are capped and ETO exposed. Call for additional sizes.

MODEL	SIZE	GAUGE	LENGTH	QTY/PK
B20-50-1CC	1cc	20ga	0.5"	25
B20-100-1CC	1cc	20ga	1"	25
B22-50-1CC	1cc	22ga	0.5"	25
B22-100-1CC	1cc	22ga	1"	25
B23-50-1CC	1cc	23ga	0.5"	25
B23-100-1CC	1cc	23ga	1"	25
B25-50-1CC	1cc	25ga	0.5"	25
B25-100-1CC	1cc	25ga	1"	25

45
Y E A R S
1980-2025

Braintree Scientific

Cath-Loc Catheter Lock Solutions

Solutions of choice in studies in catheterized animals*, Cath-Loc HGS and Cath-Lock HDS act as non-toxic anticoagulant lock solutions for indwelling catheters for pre-clinical research. Sterile vials.

HGS: Heparin/Glycerol: The antithrombic characteristics of heparin and viscous nature of glycerol combined in a solution to promote/extend the patency of vascular catheters.

HDS: Heparin/Dextrose: Combines the high viscosity of 50% dextrose with the anticoagulant activity of heparin to promote and extend implanted catheter patency. Dextrose prevents bacterial colonization and multiplication and high viscosity reduces washout from the catheter tip. Heparin aids in prevention of clot formation. Since both dextrose and heparin occur naturally in blood, any excess Cath-Lock HDS injected is quickly metabolized, when used properly.

*Y.S. Luo, et. al. AALAS 2000 Comparison of Catheter Lock Solutions in Rats. Not for human use – animal research use only

MODEL	DESCRIPTION	UNITS
HGS-5	Cath-Loc HGS, 10ml vial	5
HDS-5	Cath-Loc HD, 10ml vial.	5

TCS Anti-Microbial Lock Solution

Providing patency and infection control

Combines two active ingredients vital to the effective management of vascular access catheters; Taurolidine and Citrate. Non-toxic with no known systemic effects. Taurolidine, an anti-microbial agent, promotes catheter patency by preventing Biofilm formation while Citrate, acts as the anticoagulant.

Taurolidine component offers broad spectrum antimicrobial activity against aerobic and anaerobic gram-positive and gram-negative bacteria, yeast and fungi. Prevents biofilm development and consequently bacterial and fungal colonization, decreasing the risk of infection does not induce the development of resistant microbes.

Citrate component forms a complex with calcium, disrupting the normal coagulation cascade, precipitating it into an unusable form inhibiting blood coagulation with no systemic effect.

MODEL	DESCRIPTION	UNITS
TCS-CS	Taurolidine-Citrate Solution, 7 ml vial. . . . . used for catheter lock solution (1 box/10 vials)	10
TCS-EA	Taurolidine-Citrate Solution, 7 ml vial. . . . . used for catheter lock solution	1

T-FloLoc™

Premium 2% Tetra-EDTA catheter flushing and locking solution offering both patency and infection control. Provides broad-spectrum activity – effective against gram-positive and gram-negative bacteria and fungi. Prevents and eradicates biofilm – eliminates protected microbial colonization of catheters. Effective anticoagulant – promotes catheter patency. No development of resistance.

Each syringe is sterile packaged, suitable for sterile field use

MODEL	DESCRIPTION	UNITS/PK
TFL-1202-01	2mL 2% Tetra-EDTA Solution in 12mL Syringe	10
TFL-1202-05	2mL 2% Tetra-EDTA Solution in 12mL Syringe	50
TFL-1202-10	2mL 2% Tetra-EDTA Solution in 12mL Syringe	100

Wound Closures

EZ Clip™

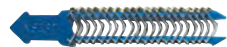### *Ideal for use with lab animals or in veterinary surgery*

Autoclip® and EZ Clip™

Racks of 9mm clips are individually packaged in heat sealed, peel-away sleeves for cleanliness, ease of handling and storage. 20 clips per rack, 5 racks per strip (100 clips). Available by the strip, 2 strips (200 clips) or by the case (1000 clips). Pyrogen free and non-sterile. Autoclavable plastic packaging allows for sterilization of clips without removing them from the packaging. Stainless steel Clip Applier applying forcep holds one rack. Works like a staple gun to apply clips to wound. Clips are fed by rustless beryllium-copper springs. Stainless steel Clip Remover can be used to remove all sizes of wound clips.

MODEL	DESCRIPTION
EZC-KIT	EZ Clip Kit
EZC-APL	Clip Applier
EZC-RMV	Clip Remover
EZC-2PK	EZ Clips, Non-Sterile, (200 clips)
EZC-CS	EZ Clips, Non-Sterile, Case (1,000 clips)

Reflex 7mm Wound Closure System

For those who prefer the smaller clip; the Reflex 7mm Skin Closure System is the right choice.

MODEL	DESCRIPTION
RF7-APL	Applier
RF7-BX	Clips, 100/cs
RF7-CS	Clips, 1,000/cs
RF7-RMV	Remover
RF7-KIT	Includes applier, remover and 100 clips

Autoclip® Wound Closing System

Works like a staple gun to rapidly apply Autoclip closures. Holds 20 Autoclips, which are held firm and ready for use by rustless beryllium-copper springs. Autoclips provide maximum holding force with minimal trauma. When the wound is healed, clips are easily removed with the Autoclip Remover. Stainless steel Autoclips are non-pyrogenic and supplied non-sterile, but may be autoclaved.

MODEL	DESCRIPTION
ACS-KIT	Autoclip Starter Kit (includes applier, remover, and 1,000 clips)
ACS-APL	Autoclip Applier
ACS-RMV	Autoclip Remover
ACS-BX	Autoclips 100/box
ACS-CS	Autoclips 1,000/case

Basic Sutures for Small Animal Surgery

Non-absorbable natural silk

The softness of natural silk has been preserved in this high-grade suture.

MODEL	DESCRIPTION	SIZE	LENGTH
Spools			
SUT-S-103	Silk Sutures	7-0	100 yds
SUT-S-104	Silk Sutures	6-0	100 yds
SUT-S-106	Silk Sutures	5-0	100 yds
SUT-S-108	Silk Sutures	4-0	100 yds
SUT-S-110	Silk Sutures	3-0	100 yds
SUT-S-113	Silk Sutures	2-0	100 yds
SUT-S-116	Silk Sutures	0	100 yds
SUT-S-119	Silk Sutures	1	100 yds
SUT-S-122	Silk Sutures	2	100 yds

Collars, Tethers, Slings and Harnesses

Rodent Jackets

Manufactured from breathable, latex-free power net mesh in a saddle-style format. Designed for use with rodent tethers and available in a range of sizes to ensure a secure yet comfortable fit.

MODEL	DESCRIPTION
RJ-M01	Mouse up to 25g
RJ-M02	Mouse 25-30g
RJ-M03	Mouse 30+g
RJ-S	Rat 150-250g
RJ-M	Rat 250-350g
RJ-L	Rat 350-500g
RJ-XL	Rat 500+g
RJ-RDI	Rat Dermal Insert
RJ-MDI	Mouse Dermal Insert

Elizabethan Collars

Designed to prevent animals from grooming and to protect surgical or treatment sites. All collars are manufactured from a low-density polyethylene, a lightweight material. Collars close with Velcro fasteners providing adjustable and secure fit. Neck openings are bound with cotton jersey for comfort and light padding.
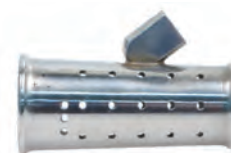
MODEL	DESCRIPTION
EC-M1	Elizabethan Collar for Mice 2.75"
EC-R1	Elizabethan Collar for Rats up to 450g - 4.625"
EC-R2	Elizabethan Collar for Rats 450g+ - 5.125"

Rodent Tail Cuffs

Constructed of stainless steel with self-threading tether attachment point. Used as an alternative to the rodent jacket.

MODEL	DESCRIPTION
TC-RT-T1	Rat Tail Cuff
TC-MT-T1	Mouse Tail Cuff
TC-RTC-1	Light Weight Rodent Tail Cuff, anodized aluminum
TC-RTC-2	Tapered Stainless Steel Rodent Tail Cuff, 16mm OD – 14mm ID .

Rodent Sling and Restraint Cover

Slings can be used to securely restrain rodents during many procedures. Choice of many sizes and range of adjustment make rodent sling a valuable asset.

Other small animal species may also be restrained using same frame with suits and slings available for mice and guinea pigs.

Frame: Polypropylene base with supports made from stainless steel, one inch thick base material provides a robust support that does not move. Stainless supports and connectors held with convenient thumbs screws allow for height adjustments. Frame is easily cleaned and dismantles when not in use.

Restraints: Full body restraint is provided with choice of either sling suit or sling cover. Both restrainers allow for access to all limbs, head and tail. Velcro fasteners allow for quick and secure restraint and adjustable fit for individual animals. Sling suits are sold in five sizes according to weight range of animals. Rodent Sling Cover is available in single size for rats up to 500g. Custom sizes available on request.

MODEL	DESCRIPTION
RSL-FS1	Rodent Sling - frame and cover
RSL-FC01	Rodent Sling Cover only
RSL-MFS1	Mouse sling - frame and cover
RSL-MFC01	Mouse sling Cover only
RSL-FC1	Rat Sling Suit Small, 150-200g
RSL-FC2	Rat Sling Suit Medium, 250-350g
RSL-FC3	Rat Sling Suit Large, 350-500g
RSL-FC4	Rat Sling Suit X-Large, 500g+
RSL-C00	Mouse Sling Suit
RSL-C03	Mouse Sling Suit Large, 30g+

Swivel

Rodent swivels are made from durable plastic and are fitted with a 20g or 22g needle. Designed for long-life and repeated usage. Sterile packaged.

MODEL	DESCRIPTION
RS-20G	Gas Sterilized 20g
RS-22G	Gas Sterilized 22g

Rodent Swivel Mount

Swivel retainer is designed to hold swivel on outside of cage where it can be easily accessed while protected from the reach of the animal. Two designs available: front mounting clip, or to mount to cage top via a post and foot. Suitable for all models of solid bottom cages.

MODEL	DESCRIPTION
RS-01	Retainer - Front Mounting
RS-02	Retainer for Shoebox Cage

Tethers
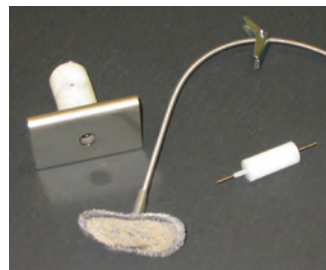
Constructed from lightweight stainless steel spring-coil, rodent tethers come complete with a crimped end for direct attachment to the rodent swivel (removing the need for potentially troublesome connection hardware). Jacket anchors comes ready sewn with silver woven fabric for added comfort and resistance to opportunistic infection. Rodent tethers are designed to protect the exteriorized catheter and can be used with rodent jackets.

MODEL	DESCRIPTION
RT-12	Tether 12" sewn
RT-18	Tether 18" sewn

LOMIR Butterfly Harness

A versatile product; created from One Strap™ Velcro for making a simple to use mouse harness suitable for the majority of mice commonly used in research. Butterfly harnesses' versatility extends to a wide range of applications; originally designed to protect excisions during healing. The harness is compatible with infusion systems and those for dermal applications.

MODEL	DESCRIPTION
MHBF00	Mouse Butterfly Harness (single piece back to back Velcro™) - one size

Technocut® Plus Disposable Safety Scalpels

The safety and performance you need

► Fully extended blade enables clear line of sight
► Top activation allows for ambidextrous use
► Fully enclosed front enhances blade stability and security
► Audible clicks help confirm proper blade position
► Final lock for safe handling and disposal
► Non-slip ergonomic handle with metric scale
► Color coded slider button for easy blade size identification
► Highest quality standards

► Uses premium GLASSVAN® blades. Computerized grinding and proprietary polishing processes for the blades ensure consistent, clean, sharp cutting edges
► Scalpel blades produced from high quality, high durability Swiss stainless steel
► Scalpels manufactured in ISO 13485 certified facilities

MODEL	SIZE
SSS-10	#10
SSS-11	#11
SSS-12	#12
SSS-15	#15
SSS-20	#20

*10 sterile scalpels per box, 5 boxes per case

Disposable Stainless Steel Safety Scalpel

Engineered for safety and simplicity. Complies with the OSHA directive by providing a fully retractable scalpel blade, which protects the user from accidental needle sticks associated with traditional scalpels.
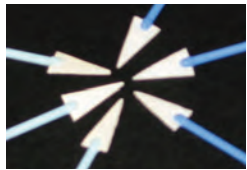
Reusable sterile stainless dissecting surgical blades and handles also available – call for size and pricing.

Supplied sterile. Single use.

MODEL	SIZE	QTY
45-10	#10	10/pk
45-11	#11	10/pk
45-12	#12	10/pk
45-15	#15	10/pk
45-22	#22	10/pk

Surgical Spears

Disposable, super absorbent surgical spears for use during ophthalmic and other microsurgical procedures. Available in cellulose and PVA.

Supplied sterile.

MODEL	DESCRIPTION	QTY
SP-40400	PVA Surgical Spears	100/pk
SP-0008685	Cellulose Surgical Spear	180/pk

Single Use Surgical Instruments

ST5-120 ST5-124 ST5-16 ST5-304 ST6-118 ST7-2 ST7-36

MODEL	DESCRIPTION	QTY
ST5-16	OR Scissor, 5.5", Straight, Sharp/Blunt	50/bx
ST5-180	Metzenbaum, 5.5",Curved	50/bx
ST5-182	Metzenbaum, 7", Curved	50/bx
ST5-304	Iris Scissor, 4.5", Straight	50/bx
ST5-306	Iris Scissor,4.5", Curved	50/bx
ST6-120	Adson Forcep, 4.75",1x2	50/bx
ST6-44	Tissue Forcep, 5.5",1x2	50/bx
ST6-8	Dressing Forcep, 5.5"	50/bx
ST7-36	Kelly Forceps, 5.5", Straight	50/bx
ST7-38	Kelly Forceps, 5.5", Curved	50/bx
ST7-4	Halstead Forceps, 5", Curved	50/bx

Shop online at www.braintreesci.com

Specialty Scissors
Iris Scissors

SC128   SC130
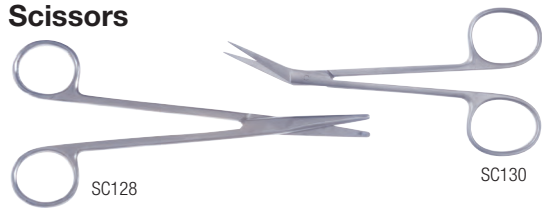
For precise vascular and neurological dissection. Ideal for small specimens. 4.5" (114.3mm)

MODEL	DESCRIPTION
SC-I-128	Std. Pattern, Straight
SC-I-129	Std. Pattern, Curved
SC-I-130	Std. Pattern, AnLL-135

Scissors
SuperCut Scissors

Manufactured with the highest grade surgical stainless steel. Tempered and hardened for a longer sharper life. The SuperCut blade has a specially designed razor sharp edge.

Tungsten Carbide Scissors

Unique tungsten carbide cutting edges provide effortless yet accurate cuts through the toughest tissue. Shanks are tempered to allow proper flexibility and comfort. Finger rings are well rounded and polished allowing better feel while preventing finger fatigue.

MODEL	DESCRIPTION
SuperCut Surgical Scissors - Sharp/Blunt	
SCT-S-508	Surgical Scissors - Straight 5.5" (139.7mm)
SCT-S-511	Surgical Scissors - Curved 5.5" (139.7mm)
SuperCut Metzenbaum Scissors - Delicate	
SCT-M-523	Straight, 4.5" (114.3mm)
SCT-M-525	Curved, 4.5" (114.3mm)
SuperCut Iris Scissors	
SCT-I-528	Straight 4.5" (114.3mm)
SCT-I-529	Curved 4.5" (114.3mm)
Tungsten Carbide - Iris Scissors	
SC-T-405	Straight, 4.5" (114.3mm)
SC-T-406	Curved, 4.5" (114.3mm)

Dissection Scissors
Metzenbaum Scissors

A unique combination of narrow blunted points along with thin delicate shafts for delicate dissection and minimal damage to surrounding tissues.

MODEL	DESCRIPTION
SC-M-125	Curved, Delicate, 5.5" (139.7mm)
SC-M-126	Curved, Delicate, 7" (177.8mm)
SC-M-180	Curved, Std. Pattern, 5.5" (139.7mm)
SC-M-182	Curved, Std. Pattern, 7" (177.8mm)

Alm Retractor
Specifications:
Spread: 2.75" (7cm)
Prongs: 2.25" (5.7cm)
Depth: 0.125" (0.32cm)

MODEL	DESCRIPTION
ALM-112	Alm Retractor

Forceps

FC1001
FC1002
FC1008
FC0037
FC0038
FC027
FC127
FC028
FC128
FC009
FC109
FC110

Premium Grade Dressing Forceps

Serrated tips and ribbed grip to assist with delicate dissection. Standard pattern, serrated handle.

MODEL	DESCRIPTION
Standard Pattern, serrated handles	
FC-1001	Premium Grade 4.5" (114.3mm)0
FC-1002	Premium Grade 5" (127mm)
Curved, delicate narrow tips	
FC-1008	Premium Grade 5" (127mm)

Iris Tissue Forceps

Sharp 1 x 2 interlocking teeth for secure grip with minimal tissue compression.

MODEL	DESCRIPTION
FC-0037	Straight, 1 x 2 teeth, 4" (101.6mm)
FC-0038	Full curved, 1 x 2 teeth, 4" (101.6mm)

Adson Forceps

Extra broad ribbed grip for delicate precision dissection. Available with serrated or toothed tips.

MODEL	DESCRIPTION
Standard Grade	
FC-027	Dressing, serrated, 4.75" (120.7mm)
FC-028	Tissue 1 x 2 teeth, 4.75" (120.7mm)
Premium Grade	
FC-127	Dressing, serrated, 4.75" (120.7mm)
FC-128	Tissue 1 x 2 teeth, 4.75" (120.7mm)

Delicate Specialty Dissection Forceps

MODEL	DESCRIPTION
Delicate Tissue Forceps	
FC-032	Serrated, 5" (127mm)
FC-033	Tissue, 1 x 2 teeth, 5" (127mm)
FC-0341	Fine Point, 4.5" (127mm)

Standard Pattern Tissue Forceps

Secure ribbed grip.

MODEL	DESCRIPTION
Standard Pattern, Serrated Handles, 1 x 2 Teeth	
FC-109	Premium, 4.5" (114.3mm)
FC-110	Premium, 5" (127mm)
FC-111	Standard Grade, 4.5" (114.3mm)

Dumont Forceps

MODEL	DESCRIPTION
FC-5005	109mm Inox, 45° angle, tip 0.05 x 0.01mm
FC-5058	109mm Dumoxel, 45° angle, tip 0.10 x 0.06mm
FC-5043	110mm Inox, straight, tip 0.17 x 0.10mm
FC-5047	115mm Inox, curved, tip 0.17 x 0.10mm

All prices subject to change without notice.

Micro Vascular Clip Setting Forcep

MODEL	DESCRIPTION
MVC-5450	8" L

Micro Vascular Clips

MODEL	DESCRIPTION
MVC 00	Micro Vascular Clip 1mm 10-15gr 8mm L
MVC 02	Micro Vascular Clip 1-2mm 15-20gr 11mm L
MVC 04	Micro Vascular Clip 2-3mm 20-30gr 14mm L

Bone Wax

► Bone wax is used to control bleeding in procedures that involve cutting through bones, such as thoracic, neurosurgery, orthopedic, oral and maxillofacial surgeries.
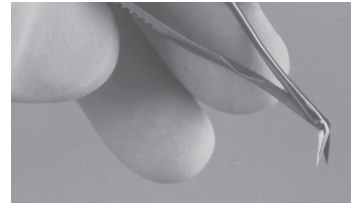► Soft and easy to form and apply.
► Each easy-to-open foil package contains 2.5 grams of wax.

MODEL	DESCRIPTION	QTY
DYNJ-BW26	Sterile Synthetic Bone Wax	12/bx

Micro Instruments

Micro Scissors

Very delicate scissors for precision dissection. Excellent for small animals.

MODEL	DESCRIPTION
Micro Iris Scissors	
SC-MI-150	Straight, sharp points, 4" (101.6mm)
SC-MI-151	Curved, sharp points, 4" (101.6mm)
Micro Scissors	
SC-MS-152	Straight, superfine blades, 3.25" (82.5mm)
SC-MS-153	Curved, superfine blades, 3.25" (82.5mm)
SC-MS-154	Right Angle 4"
SC-MS-155	Left Angle 4"
Premium Grade Micro-Tissue Forceps	
FC-145	Curved Tip 4.25" (107.95mm)
FC-146	Narrow Fine Tip 4.25" (120mm)
FC-147	Super Fine Tip 4.25" (107.95mm)

Shop online at www.braintreesci.com

Surgical Instruments

Instrument Case

Zippered: Velveteen-lined case with "leather-look" vinyl exterior; zips closed around three sides

MODEL	DESCRIPTION
CS-7700	Holds up to 12 instruments

Lab Animal Science Kit

Kit includes: Metzenbaum straight and curved scissors, standard pattern tissue forceps with 1 x 2 teeth, standard pattern dressing forceps, Nugent utility forceps with 45° angle and smooth tips, Blumenthal oral surgery Rongeur with jaws at 30° angle and storage cassette.

MODEL	DESCRIPTION
LASK-6891	Lab Animal Science Kit with Case
LASK-6891-NC	Lab Animal Science Kit without Case

Rat and Mouse Dissection Kits

Rat kit includes: Dumont forceps #5, Vannas scissors, SuperCut Iris scissors, straight, Alm retractor, needle holder, blunt probe, zippered case

MDK-R

Mouse kit includes: Dumont forceps #5, Vannas scissors, Dissecting scissors, Wire retractor, needle holder, blunt probe, zippered case

MDK-M

MODEL	DESCRIPTION
MDK-R	Rat Dissection Kit
MDK-M	Mouse Dissection Kit

Microsurgical Instrument Kit

Includes:
- Derf needle holder: 4.75"
- Iris scissors: straight, 4"
- Swiss jeweler style forceps: micro-fine, 4.375"
- Probe: 4.5"
- McPherson micro iris suturing forceps: straight, 3.5"
- McPherson-Vannas micro iris scissors: straight, 3.25"
- PlainWire eye speculum: 2.5"
- Storage cassette: 6.5" x 6.25" x 1.25" (MSK-6890 only)
- Storage cassette mat (MSK-6890 only)
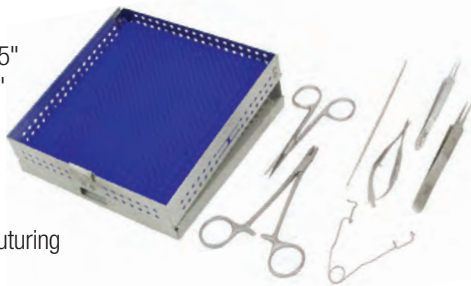
MODEL	DESCRIPTION
MSK-6890	Microsurgical Instrument Kit
MSK-6890-NC	Kit without Storage Cassette and Mat

Micro Bead Sterilizer

Ideal for sterilization of small research tools (forceps, scissors, etc.) generally in 15 seconds. When chamber is filled with included glass beads, high temperatures (up to 300°C) can be used to eliminate presence of bacteria, spores and other microorganisms.

Chamber temperature can be viewed on large LED control panel and conveniently adjusted with control knob. Outer casing of unit stays cool to touch, even when sterilizer is used all day. Supplied safety cover can be placed over opening to conserve energy and reduce heating/ramping rate. Micro Bead Sterilizer does not use gas, flame or chemicals and is safe for use in hoods. With adjustable temperature, application range of sterilizer can also be expanded into incubations and decontamination of plastic objects/tools. Tall model is ideal for sterilization of larger objects.

Designed for RESEARCH USE ONLY. Not intended for clinical use.

MODEL	DESCRIPTION
MB-1201	Micro-Bead Sterilizer, chamber height 80mm0
MB-1202	Micro-Bead Sterilizer, Tall, chamber height 140mm
MB-1201-BEAD	Micro-Bead Sterilizer glass replacement beads only

Germinator 500

Dry sterilize surgical instruments in seconds

NIH guidelines recommend sterilizing instruments for small animal surgery. Hot glass bead sterilizers are ideal for this application. **Stays cool to the touch** - the chassis stays cool, even at the end of a full day of operation. Air above unit is cool enough to insert an instrument into well without discomfort. Insert surgical instrument into well, sterilization of inserted parts by dry heat (260°C) takes 2-5 seconds. Handles of instruments, outside heat, do not get hot.

Metal in beads is heated only on the surface, not to the depth, so cooling is quick after removal. Within 30 seconds, surgical instruments are cool enough to use. 4" deep x 2" diameter.well size.

Beads eventually, after extensive use, wear to powder. Replace when it becomes difficult to push instruments in deep enough.

MODEL	DESCRIPTION
GER-5287	Dry Sterilizer
GER-5289	Glass Bead Refill Package

UV-Clave UltraViolet Chamber

Improves quality of PCR research by reducing potential contaminants. Multiple lamps and reflective chamber walls provide true 360° irradiation. Proprietary UVC transparent shelf, eliminates potential for missed coverage (blind spots). Inactivates DNA, RNA, viruses and bacteria on PCR vessels. Adjustable cycle time.

MODEL	DESCRIPTION
B1450	UV-Clave UltraViolet Chamber, 115V
B1450-SH	Optional extra shelf, stainless steel
B1450-SH-UV	Optional extra shelf, UV Transparent
B1450-ISS	UVC Indicator Stickers, pack of 40
B1450-IC	UVC Indicator Cards, pack of 25

Infrared Microsterilizer

BactiZapper™ has an asbestos-free core element that uses infrared heating to produce 815°C (1500°F). It completely sterilizes micro-organisms in 5-7 seconds. BactiZapper uses well-proven technology to provide instant sterilization of platinum inoculating loops, needles, glass tube pipette mouths and various metal and borosilicate glass instruments. Ceramic heating element is safely enclosed in a perforated stainless steel guard chamber, protecting users from accidental contact with extreme temperatures of the core area. It is extremely compact, convenient and can be used in anaerobic and aerobic chambers.

Specifications:
Max temperature: 815° C/1500° F
Sterilization: 5-7 secs
Chamber diameter: 0.55"/14mm
Chamber length: 3.94"/100mm
External dimensions: 4" x 6" x 6.5"

MODEL	DESCRIPTION
B1000	BactiZapper Infrared Microsterilizer
B1001	BactiZapper Infrared Microsterilizer with adjustable tilt angle

Ideal Micro-Drill™

Designed for research applications that require surgical burrs and trephines. Constructed of light-weight aluminum alloy for balance and control and powered by a rechargeable 6-volt nickel cadmium battery. Under normal operating conditions unit will function for 8 hours between charges. Includes five burrs: 0.6mm, 0.8mm, 1mm, 1.2mm, 1.6mm. No special tools needed to change burrs.

Specifications:
Size (without burr): 17.5cm L x 1.9cm Dia.
Power: 6-Volts DC
Speed: 12,000 rpm
Stall torque: 1.25 oz/in

MODEL	DESCRIPTION
MD-1200	Ideal Micro-Drill™

Gemini Cautery System

Dual Operating Temperatures

Battery operated system provides 1300°F and 2200°F operating temperatures. Easily replaceable, autoclavable, nickel-chrome tips require less power and provide longer battery life. Convenient battery spacer converts hand piece from high temp to low temp. Includes standard AA batteries, battery spacer, 2 each tips - sizes 5mm and 10mm and hard plastic storage case.

MODEL	DESCRIPTION
GEM-5917	Gemini Cautery System
GEM-5918	Replacement Tips, 5 x 1mm (box of 10)
GEM-5919	Replacement Tips, 10 x 1mm (box of 10)

Change-A-Tip Deluxe Kits

DEL-1   DEL-2

Battery operated tip cauteries are ideal for office, ER and clinical procedures where reusability is a must.

Can be purchased as DEL-0, DEL-1 or DEL-2 pre-packaged Change-A-Tip cautery and tip kits or individually in high or low temperature models with a variety of tips for various procedural needs.

MODEL	DESCRIPTION
DEL-0	Change-A-Tip deluxe low-temp cautery kit (includes one low-temperature handle, two DEL100 non-sterile tips, two DEL104 non-sterile tips, one "AA" battery and a foam-lined case)
DEL-1	Change-A-Tip deluxe high-temp cautery kit (includes one handle, two DEL101 non-sterile tips, two DEL103 non-sterile tips, two "AA" alkaline batteries and a foam-lined case)
DEL-2	Change-A-Tip deluxe HI-LO cautery kit (includes one low-temperature handle, one hightemp handle, one sterile DEL-100 tip, one sterile DE-L101 tip, one sterile DEL-103 tip, one sterile DEL-121 tip, six "AA" alkaline batteries and a foam-lined case)

Change-A-Tip Replacement Tips
DEL-100	Low-Temp Fine Tip (10/box)
DEL-101	High-Temp Fine Tip (10/box)
DEL-103	High-Temp Loop Tip (10/box)
DEL-104	Low-Temp Elongated Fine Tip (10/box)
DEL-110	Contra Angle Fine Tip (10/box)
DEL-121	High-Temp Elongated Tip (10/box)

Rubber Tipped Handling Forceps

The rubber tips help maintain a secure grip without causing harm, ensuring the well-being of the animals during experimentation, treatments, or examinations. The ringed tips have replaceable inserts made of soft, non-slip rubber. The rubber grippers ensure a secure grasp without causing damage to the skin or fur and provide precise control without causing unnecessary stress or harm to the animals. The forceps are 21 cm (8.25") long and are straight.

MODEL	DESCRIPTION
FC-503370	Handling Forceps
FC-504645	Replacement Tips

Shop online at www.braintreesci.com

Scales and Balances

New! Aqua Washdown Scales

Scales are available in a selection of capacities and readabilities. Scales offer an IP67 rating and feature a stainless steel pan to withstand demanding environments and frequent washdown.

- ► Weighing Units: kg, g, lb, oz, lb:oz
- ► Power Supply: 12VDC 800mA adapter
- ► Display: LED with 0.8" / 20mm high digits
- ► Calibration: External calibration

MODEL	CAPACITY	PAN SIZE	READABILITY
ABW 4	9lb / 4kg	9.6" x7.1" / 245x180mm	0.001lb / 0.0005kg
ABW 8	18lb / 8kg	9.6" x7.1" / 245x180mm	0.002lb / 1g
ABW 16	35lb / 16kg	9.6" x7.1" / 245x180mm	0.005lb / 2g
ABW 32	70lb / 32kg	11.8" x8.3" / 300x210mm	0.01lb / 5g

Core™ Compact Portable Balances

Full range tare, 9 weighing units, zero tracking, simple 4 button operation, backlit LCD display, stainless steel pan, ShockProtect™ overload three-point protection, can be stacked for storage (120mm pan size only). Lock down mounting slot for Kensington™ type lock and cable. Dual tare keys, lightweight and portable, modern low profile design. Color coded, sealed keypad. Low cost and simple to use. External calibration. Battery power (6 x AA batteries) and includes AC adapter. Auto sleep/power down function to save battery life.

MODEL	CAPACITY	PLATFORM SIZE	READABILITY
CQT 202	200g	4.7" Ø/120mm Ø dia	0.01g
CQT 251	250g	4.7" Ø/120mm Ø dia	0.1g
CQT 601	600g	4.7" Ø/120mm Ø dia	0.1g
CQT 1501	1500g	4.7" Ø/120mm Ø dia	0.1g
CQT 2601	2600g	5.7" Ø/145mm Ø dia	0.1g
CQT 2000	2000g	5.7" Ø/145mm Ø dia	1g
CQT 5000	5000g	5.7" Ø/145mm Ø dia	1g
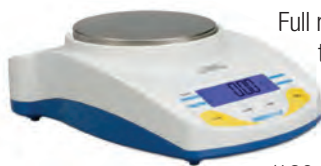
CB Compact Portable Scale

- ► Portable with battery power (batteries included)
- ► Weigh units: grams, ounces and pounds

Ideally suited for a variety of uses and applications, small and easy to use. Backlit LCD display shows clear results, with a simple to use keyboard and Grade 304 stainless steel removable top pan for easy cleaning. Optional mains adaptor can be purchased.

MODEL	CAPACITY	PLATFORM SIZE	READABILITY
CB-501	500g	5.1" Ø/130mm Ø	0.1g
CB-1001	1000g	5.1" Ø/130mm Ø	0.1g
CB-3000	3000g	5.1" Ø/130mm Ø	1g

MTB Digital Scale

Lightweight and portable, the MTB offers versatility for weighing small animals. The ergonomic cradle provides comfortable support and removes easily to reveal a non-slip rubber mat as an alternate method of weighing.

Key Specifications: Capacity 44lb / 20kg, Readability 0.005lb / 5g. Operation and function are easy with 3 buttons that include On/Zero, Mode, and Memory. The MTB can be powered with either 4 AA batteries or AC power adapter. On-board Memory Feature can recall the last weight taken, allowing the user more time to record results. Large easy-to-read high contrast display is visible from a distance.

MODEL	CAPACITY	READABILITY
MTB-20	44lb / 20kg	0.005lb / 0.005kg

Specimen Box with cover

Specimen box holds rodents for weighing purposes.

Specifications:
Dimensions: 4"H x 9"W
Weight: 157g

MODEL	DESCRIPTION
SB-8053	Specimen Box with cover

Clippers and Trimmers

Pocket Pro Pet Trimmer

Light-duty trimmer ideal for precision trimming and great for touch-ups

- ► Compact size easily fits in palm of hand
- ► High carbon precision ground steel blades stay sharper longer
- ► Cordless, battery operated for convenient use anywhere

MODEL	DESCRIPTION
CLP-9931-B	Pocket Pro Pet Trimmer, blue

Shop online at www.braintreesci.com

Aesculap Exacta Clipper/Trimmer

- ► Highest quality German craftsmanship
- ► Very handy small size trimmer – perfect for very detailed clipping or small areas before surgery.
- ► Only 1" wide blade and weighs only 4 ounces
- ► Cordless, rechargeable Li-Ion battery with charging base
- ► 120 minute run time and 90 minutes charge time
- ► 2 year warranty

KERBL

MODEL	DESCRIPTION
CLP-GT416	Aesculap Exacta Clipper/Trimmer
CLP-GT608	Replacement Blade

MiniArco

- ► Unsurpassed rotary motor is very fast and powerful
- ► Cordless operation for convenience
- ► Lightweight, quiet and cool running
- ► Superior quick detachable blade set

Kit includes: Trimmer, charger, detachable #30 blade set, cleaning brush, blade oil, two dual-sided guide combs and instruction book.

MODEL	DESCRIPTION
CLP-8787-450A	MiniArco Professional Cordless Trimmer
CLP-8787-2179-100B	#30 Replacement Blade

Vetiva Mini Trimmer

An ultra lightweight, premium trimmer made to tackle the toughest grooming, surgery prep/IV prep, and wound care situations.

- ► Designed for veterinary use, Vetiva Mini is quiet, blades are simple to change, and seamless housing is easy to sanitize
- ► Trimmer battery lasts for two full hours and can be used corded or cordless
- ► Equipped with speed control that increases blade speed to overcome blade jams and stalling when trimming in difficult situations
- ► Perfect for hard-to-reach spots and cuts at a surgical #40 cut length

Kit includes: Professional cordless trimmer, 1 variable attachment comb (3-6mm), charging stand, charging cord, instruction book, cleaning brush and blade oil.

MODEL	DESCRIPTION
CLP-88-420	Vetiva Mini Trimmer
CLP-88-2018	Replacement Blade
CLP-88-3025938	Replacement Blade

BravMini+ Trimmer

- ► Professional power cordless trimmer works best for all over trimming
- ► NiMH battery with 2 hour quick full charge time
- ► Cool running with 100 minutes of cordless operation
- ► Exceptionally quiet
- ► Glides through coats quickly and efficiently with low vibration
- ► Quiet enough for sensitive or shy animals but has the power to get the job done

Kit includes: Professional cordless BravMini+ Trimmer, snap on and off #30 trimmer blade (1/32" cut), 5 position adjustable attachment comb (3mm to 6mm), charging stand, blade oil, cleaning brush and instruction book.

MODEL	DESCRIPTION
CLP-41590-P	BravMini+ Cordless Trimmer, purple
CLP-41590-7840B	Designer 1/2" Replacement Blade

KM Cordless™ Cordless Detachable Blade Clipper

Combines the signature brushless motor with lithium ion technology in Wahl's very first detachable blade cordless clipper! Brushless motor runs cooler than any other clipper motor, but it also has the longest life.

- ► Quick charge feature provide an extra 15 minutes of clipping for every 10 minutes it charges
- ► Includes a #10 blade for faster, smoother clipping
- ► Constant Speed Control automatically delivers more power and torque in tough areas
- ► Two hours cordless run time with lithium ion battery
- ► Cord/cordless capable allows for all day use
- ► Two powerful speeds: 3,000 & 3,700 SPM

Kit includes: 2-speed Cordless Detachable Blade Clipper with 10 ft. heavy duty charging cord, #10 detachable blade, cleaning brush and blade oil.

MODEL	DESCRIPTION
CLP-9596-100	KM Cordless™ Detachable Blade Clipper
CLP-9596-02352B	#40 Replacement Blade
CLP-9596-02358B	#10 Replacement Blade

Arco SE Professional '5 in 1' Blade Cordless Clipper

- ► Professional cordless '5 in 1' blade clipper kit with 2 NiMH batteries and unsurpassed cutting performance
- ► Lightweight and powerful, 5,500 strokes per minute with adjustable '5 in 1' blade with sizes #9, #10, #15, #30 and #40
- ► Clipper and blade are always cool running and clipper is amazingly quiet.
- ► Continuous cordless operation with dual-charge battery packs

Kit includes: Cordless clipper, 2 NiMH batteries for continuous runtime, '5 in 1' adjustable blade, charging base, 4 snap-on guide combs (#3, #6, #9, and #12), cleaning brush, blade oil, blade guard and instructions.

MODEL	DESCRIPTION
CLP-8786-451A	Arco Professional Cordless Clipper, '5 in 1' blade
CLP-8786-301-51B	5-Position Blade, Fine
CLP-8786-7190-61B	5-Position Blade

Super Pocket Pro Battery Operated Trimmer

- ► Durable black chrome body
- ► Quieter and more powerful than original Pocket Pro
- ► 4" long and weighs 3 oz.
- ► Cordless with up to 6,000 strokes per minute – ideal for precision trimming on ears and paws

Includes: Trimmer with #40 blade and bonus #40 T-Blade, 6-position length guide, 1 AA battery, 2 attachment guide combs, travel pouch, cleaning brush, blade oil, blade guard and instructions

MODEL	DESCRIPTION
CLP-9961-2801	Super Pocket Pro Battery Operated Trimmer

Grace Small Animal Procedure/ Dissection Boards

Boards are made of 1" thick high density polyethylene (HDPE) with excellent chemical resistance, easy-to-clean, solid work surface.

Procedure/Dissection Board (GPS1)
► Size: 12"L x 8"W
► Non-skid feet for added stability

Procedure/Dissection Board with Magnetic Base System (GPM1)
► Same features and size as GPS1 procedure/dissection board
► Magnetic base system

Procedure/Dissection Board with LED, Magnifier and Magnetic Base System (GPM2)
► Size: 12"L x 9.5"W
► Two flexible LED lights provide direct illumination without shadows or heat
► Flex arm, non-obstructive rimless magnifying glass (main lens: 2.3X, inset lens: 4.0X) allows continuous eye contact with object when moving into magnification area
► Universal input power supply (100-240 VAC, 50-60 Hz)
► Non-skid feet for added stability

Procedure/Dissection Board with LED, and Magnifier (GPS2):
► Same features and size as GSM2 procedure/dissection board
► Magnetic base system

Large Magnetic Drape Holders (GDH-L) Set of 4
Small Magnetic Drape Holders (GDH-S) Set of 4
Magnetic Limb Restraints (GLR1) Set of 4
Magnetic LED Light (GLED)
Universal input power supply 100 – 240 VAC, 50-60 Hz)
Magnetic Magnifier (GMAG)
Main lens 2.3X, inset lens 4.0X
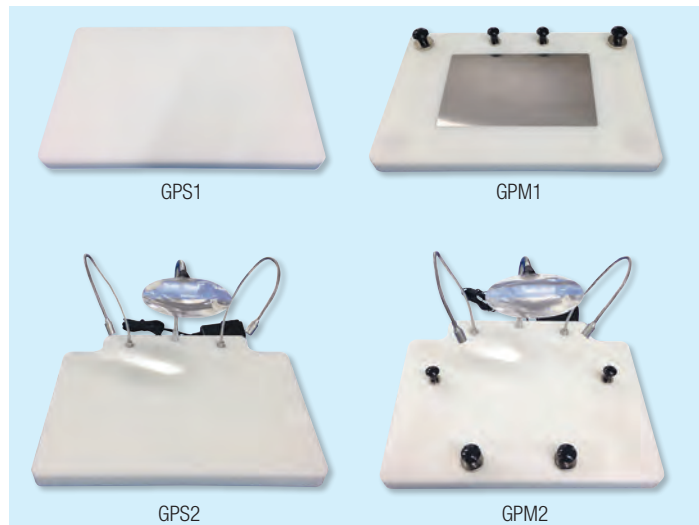
GPS1

GPM1

GPS2

GPM2

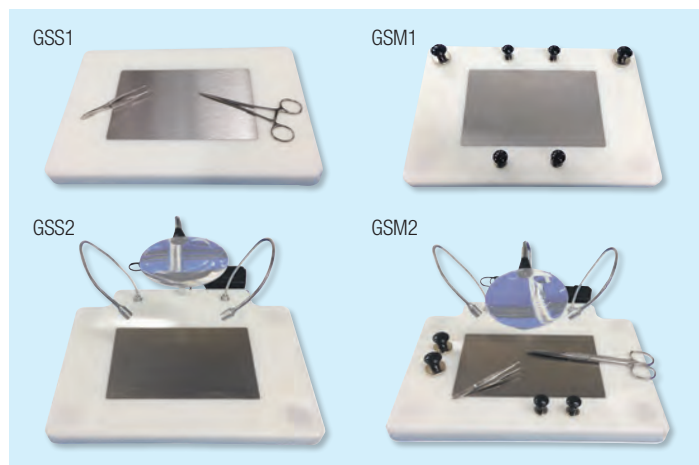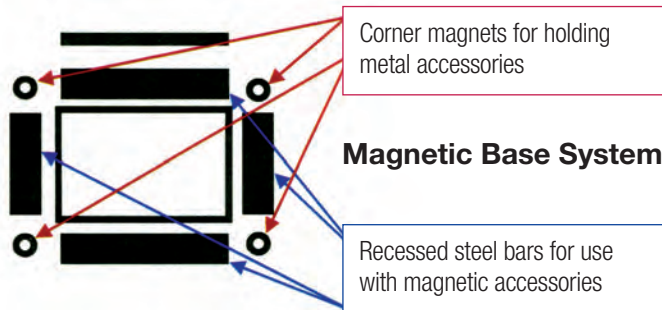| MODEL	DESCRIPTION
GP-S1	Procedure/Dissection Board
GP-M1	Procedure/Dissection Board with Magnetic Base System
GP-S2	Procedure/Dissection Board with LED and Magnifier
GP-M2	Procedure/Dissection Board with LED, Magnifier and Magnetic Base System

Accessories for Magnetic Base:

MODEL	DESCRIPTION
GDH-L	Large Magnetic Drape Holders, set of 4
GDH-S	Small Magnetic Drape Holders, set of 4
GLR1	Magnetic Limb Restraints, set of 4
LL-13	Magnetic LED Light
GMAG	Magnetic Magnifier

Grace Small Animal Surgery Boards

Boards are made of 1" thick high density polyethylene (HDPE) with excellent chemical resistance, easy-to-clean, solid work surface.

All include 7" x 4" 1x magnetic stainless steel warming plate, one Space Gel heating pad, suction cup limb restraints and non-skid feet for added stability.

Corner magnets for holding metal accessories

Magnetic Base System

Recessed steel bars for use with magnetic accessories

GSS1

GSM1

GSS2

GSM2

Warming Thermal/Cooling Hypothermic Plate

Grace Surgery Board (GSS1)
► Size: 12"L x 8"W
► Magnetic Base System option (GSM1)

Grace Surgery Board with LED and Magnifier (GSS2)
► Size: 12"L x 9.5"W
► Two flexible LED lights provide direct illumination without shadows or heat
► Flex arm, non-obstructive rimless magnifying glass (main lens: 2.3X, inset lens: 4.0X) allows continuous eye contact with object when moving into magnification area
► Universal input power supply (100-240 VAC, 50-60 Hz)
► Magnetic Base System option (GSM2)

GETP

GPP

GVT2

DP-SASB

SPGL

SPTS

Thermal Plate Heating Options

DC powered thermal plate (GETP): Use with GVT1, GPS1, GPS2, GPS3

Variable Temp Controller (GVT1): Set any plate temp. Use with GETP.

Single Temp Power Supply: Provides a single constant plate temp. Use with GETP. *Note: Final plate temp is dependent on room temp.*

Space Gel Heating Pad (SPGL-S): 33-34°C can be reactivated. For use with standard thermal plate.

Thermal Drape (SP-TS): 12" x 16", non-sterile, 2 pack. Keeps animal warm or cold during surgery.

Hypothermic Cooling Plate (GBHP): For use with ice, 3-4°C.

MODEL	DESCRIPTION
GSS-1	Surgery Board
GSM-1	Surgery Board with Magnetic Base System
GSS-2	Surgery Board with LED and Magnifier
GSM-2	Grace Surgery Board with LED, Magnifier and Magnetic Base System
GETP	DC Powered Thermal Plate
GVT2	Variable Temp Controller
GPP-1	Single Temp Power Supply - 30°C
GPP-2	Single Temp Power Supply - 34°C
GPP-3	Single Temp Power Supply - 38°C
DP-SASB	Deltaphase Heating Pad
SPGL-S	Space Gel Heating Pad
SPDR-TS	Thermal Drape (12" x16") non-sterile, 2 pk
GBHP	Hypothermic Cooling Plate

Accessories for Magnetic Base:

MODEL	DESCRIPTION
GDH-L	Large Magnetic Drape Holders, set of 4
GDH-S	Small Magnetic Drape Holders, set of 4
GLR1	Magnetic Limb Restraints, set of 4
LL-13	Magnetic LED Light
GMAG	Magnetic Magnifier

Surgery and Micro Tattooing Platform

ASS7
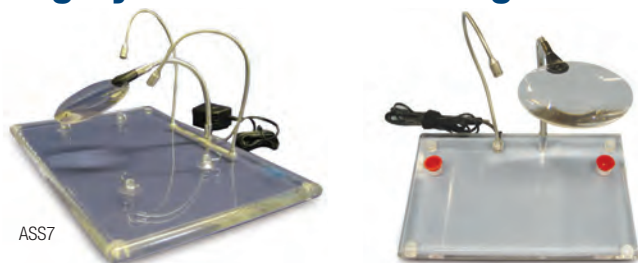
Can be used for surgery, micro manipulations, general micro-utility platform (i.e. organ inspections, dissections, etc.).

► Flex arm, non-obstructive rimless magnifying glass (main lens: 2.3 X; inset lens: 4.0 X)
► Non-skid feet for added stability.
► Universal input power supply (100-240 VAC, 50-60 Hz)

Surgery Platform:

► Two flexible LED lights - provide direct illumination, no heat or shadows
► Limb restraints
► Size: 9"x13.5"

Micro Tattooing Platform:

► One Flexible LED light - provides direct illumination with no heat
► Cup holders (1.5ml)
► Size: 6" x 9"

MODEL	DESCRIPTION
ASS7	Surgery Platform
NTS01	Micro Tattooing Platform

"Blue Wax" Dissection Tray

Add a dissection tray with a wax base pinning surface for detailed dissections!

Specially formulated to provide proper consistency to allow pins to stick firmly and be easily removed. Dissection tray uses a completely environmentally safe wax product instead of "black wax" like product used in most other dissection trays. MSDS sheet for this product lists no toxic chemicals and no fire, health or reactivity hazards with this product. "Blue Wax" can be heated to renew surface and dissection tray can be reused several times.

MODEL	DESCRIPTION
DTW-1	Dissection Tray 9" x 6.5" x 1" (each)
DTW-5	Dissection Tray 9" x 6.5" x 1" (5 pack)
DTL-1L	Large Dissection Tray 12.25" x 8.25" x 1.25" (each)

Small Animal Surgery System

► Eliminates the need for an assistant
► Reduces setup and procedure time
► Provides superior control
► Improves visualization

Animal tables are made of ferro-magnetic steel and incorporate a window for compatibility with body temperature maintenance systems.

Magentic fixators hold retractors and attach anywhere on the animal table. A push-button top operates multi-level locking jaws that grip wire or elastomers firmly.

Retractor wires are formed from light, flexible stainless steel. Retractor wires engage and lock into the fixator jaws at the desired elevation allowing both linear and rotational adjustment over the entire length of the wire. One end of the wire is formed in a loop to provide grip for a gloved hand, and the business end is formed into a right angle hook that can retract on its own or lock to a range of retractor tips. Wires are available in 10cm and 14cm lengths for mouse and rat procedures. Retractor tip widths range from 1mm to 7.5mm, plus a single point, sharp tissue hook. Each tip can be locked onto a wire for static retraction or affixed to an elastomer to form a dynamic retractor.

MODEL	DESCRIPTION
ACD-014	Small Animal Set (Mouse)
ACD-015	Medium Animal Set (Rat)
ACD-001	Fixator-magnetic - 1"-two slot (1/pk)
ACD-002	Fixator- magnetic - 2"-4 slot (1/pk)
ACD-005	Retractor, Wire Handle - 4" (10/pk)
ACD-006	Retractor, Wire Handle - 6" (10/pk)
ACD-007	Lab System Elastomer - 2 meter roll
ACD-008	Retractor - sample pack (2 each style, 5 sizes)
ACD-009	Retractor - sharp-single prong (10/pk)
ACD-010	Retractor - 1mm (10/pk)
ACD-011	Retractor - 2.5mm (10/pk)
ACD-012	Retractor - 5mm (10/pk)
ACD-013	Retractor - 7.5mm (10/pk)

Thermo Controlled Surgery Platform

Easily maintain animal body temperature during surgery!
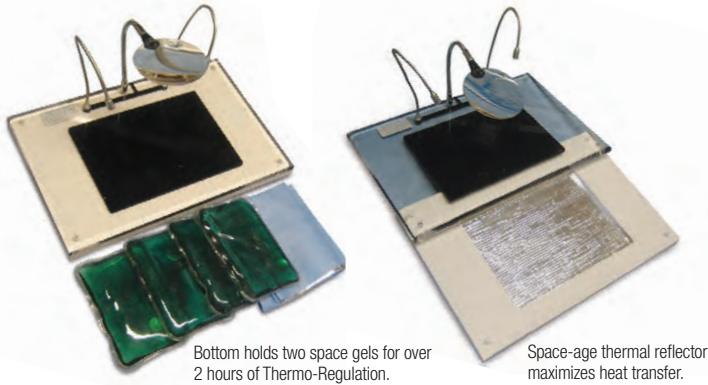
Bottom holds two space gels for over 2 hours of Thermo-Regulation.

Space-age thermal reflector maximizes heat transfer.

Two flexible LED lights provide direct illumination with no shadows and no heat. Thermo reflector and turbo heat sink to maximize heat transfer. Flex arm, non-obstructive rimless magnifying glass, 2.3 X main lens, 4.0 X inset lens. Allows continuous eye contact with object when moving into magnification area. Includes limb restraints, 4 Space Gels for continuous heat, 2 Space Blankets to retain heat, non-skid feet for added stability, and universal input power supply. Size: 13.5"L x 9"W

MODEL	DESCRIPTION
ASS7T	Thermo Control Surgery Platform with 4 Space Gels
DPIP	Deltaphase Isothermal Pad 6" x 7.5"
SPGL-S	Space Gel Pad 4" x 6"
SPGL-M	Space Gel Pad 5.5" x 10"0
ASS7D	Thermo Control Surgery Platform with Deltaphase Pads

6" x 7.5" Deltaphase pad will takes less time to activate and hold temperature for approximately 30 minutes.

See microscope section for digital microscope attachments.

DispoCut™ Disposable Dissecting Board

A good, inexpective disposable option for the laboratory

► Made of polypropylene
► Inexpensive two-sided disposable dissecting board
► Perfect for use with dissecting pins
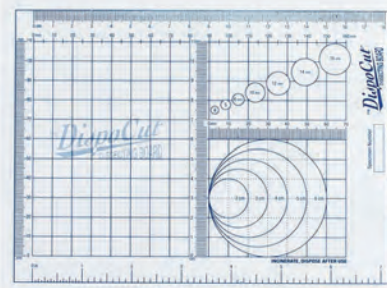
DispoCut™ Disposable Dissecting Boards are strong and resistant while remaining flexible. A clean and efficient way of handling tissue specimens for pathologists. Available in two sizes to accommodate small biopsies to large specimens – 6" x 8" and 9" x 12".

Printed with helpful imperial and metric dimensional scales in inches, centimeters and millimeters, can be used on both sides. Each surface has many conveniently located rulers including seven dimensional circles from 4 to 16 mm in diameter and five larger ones from 2 to 6 cm in diameter.

May be wiped down with alcohol with no effect on the material (light rubbing).

This product cannot be autoclaved.

MODEL	DESCRIPTION	UNITS
M-630-1	DispoCut™ Disposable Dissecting Board - 6" x 8"	24/pk
M-630-2	DispoCut™ Disposable Dissecting Board - 9" x 12"	12/pk

Surgical Pad

This Surgical pad is made out of silicon and is easily cleaned and can be autoclaved. It is approximately 6mm thick and measures 30 x 20 cm and can easily be cut in to smaller pieces to fit your needs. Excellent when using pins.
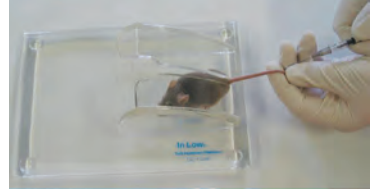

MODEL	DESCRIPTION
AGN-SPAD	Surgical Pad, silicone 30x20cm . . . .

Tail Vein Injection Platform

The quickest and easiest restraint for tail vein injections. Pull mouse tail through the slot and make injection!

► Non-grip surface
► Wide opening for easy access
► Open slot for easy cleaning feces and urine easily washed away

| MODEL	DESCRIPTION
IL-300	Tail Vein Injection Platform . . . .

Tail Snipping Platform

For isolating DNA from transgenic animals for genotyping. Pull mouse tail through the slot, measure and collect tip in the vial.
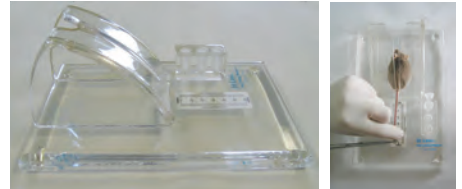
► **Micro Tube Holder:** Collect tail tip directly in the prelabeled tube for no cross contamination
► **Measuring Ruler (mm):** Accurately measure tail length for cutting. Enhances IACUC compliance
► **Cleaning Slot:** Feces and urine are easily washed out with stream of water (minimizes cross contamination)

MODEL	DESCRIPTION
IL-200	Tail Snipping Platform. . . . .

Deltaphase® Operating Board
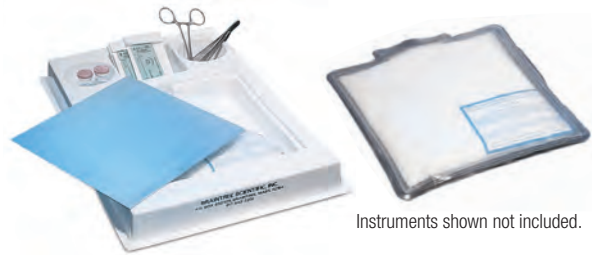
Instruments shown not included.

This compact operating board maintains animal body temperature during procedures. An 8.5" square stainless steel operating surface lies in contact with an activated Deltaphase isothermal pad. The underside of the pad is insulated for a longer isothermal period. Molded wells are provided for sponges, instruments and anesthetic apparatus. This board is easy to clean. Its low cost and safety make it appropriate for use in student laboratories. The unit is supplied with two Deltaphase pads. Each pad is 8" x 8" x 0.75"

MODEL	DESCRIPTION
39OP	Operating Board, 2 Deltaphase Pads and 2 Insulators
39DP	3 Deltaphase Pads and 3 Insulators only (no board).
39OM	Operating Board, 2 Deltaphase Pads and 2 Insulators with magnetic board
DP-PAD	Single Deltaphase Pad - 8" x 8" x 0.75"

DecapiCones®

The economical mouse and rodent restrainer

DC-200

MDC-200

Make injections and decapitation quicker and easier with Braintree Scientific's DecapiCones. Tapered plastic film tubes provide quick and easy restraint of rats, mice, and other small animals. I.P. injections can be made directly through the film! DecapiCones restrain post-decapitation kicking and prevent personal contact with feces or urine.

A unique dispenser holds DecapiCones open and ready for use. Simply hold the DecapiCone in one hand and introduce the animal with the other. Animals enter readily, heading for the breathing hole at the small end. Roll and squeeze the large end closed.

May be used repeatedly for injections and simply discarded when soiled. For decapitation, hold at the rear and insert the small end into the decapitator.

MODEL	DESCRIPTION
MDC-200	For Mice
	200 Decapicones (2 dispensers contain 100 cones each)
DC-200	For Rats
	200 Decapicones (4 dispensers contain 50 cones each)
DCL-120	For Large Rats (500-800g)
	120 Decapicones (4 dispensers contain 30 cones each)

ScruffGuard

Reusable and disposable options for every application

Reusable

With a ScruffGuard, users can handle and dose small animals gently, while avoiding bites and needlestick injuries. Can be used to administer substances by subcutaneous, intra-peritoneal and intramuscular routes. It can be used to implant microchips subcutaneously for identification purposes.

Disposable

ScruffGuard is particularly helpful for trainees who are learning to handle small animals for the first time.

Non-sterile, however both reusable and disposable options may be autoclaved at a maximum of 121°C.

► **Reusable ScruffGuard** is made from nylon material. Available in 5 sizes.
► **Disposable ScruffGuard** is made from eco-friendly fibrous by-product left over after extraction of juice from sugar cane. Available in size 9, dimensions 12.4cm x 5.3cm x 2cm.

| MODEL	DESCRIPTION	SIZE	UNITS
SCRUFF- 6	Reusable ScruffGuard for <14g,. . . . . . . 55-65mm L	6	1/pk
SCRUFF- 7	Reusable ScruffGuard for <14g . . . . 65-75mm L	7	1/pk
SCRUFF- 8	Reusable ScruffGuard for 14-20g, ... 75-85mm L	8	1/pk
SCRUFF- 9	Reusable ScruffGuard, for 20-38r, ... 85-95mm L	9	1/pk
SCRUFF- 10	Reusable ScruffGuard for 25-46g, ... 95-110mm L	10	1/pk
SCRUFF-DP-PK-9	Disposal ScruffGuard for 20-38g,. . . . . . 85-95mm L	9	25/pk

Tailveiner®

Tail vein injection made easier!

The Tailveiner is the first easy-to-use mouse and rat restrainer specifically designed for tail vein injections. Slotted tube permits the rat or mouse to be quickly pulled in by the tail. The animal is then restrained by a plug which slides easily to accommodate any size rat or mouse, but locks automatically when handle is released. After dosing, the handle is lifted and the plug is easily removed. The Tailveiner is the fastest restrainer yet for intravenous injections in small animals.

Mouse size includes free screw down noseplug option.
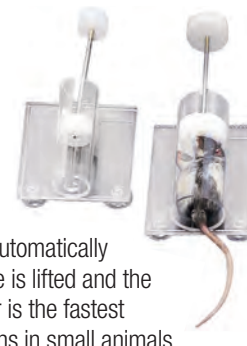
MODEL	DESCRIPTION
TV-150-SM	For Mice 1.125" ID Tube (10-30g body weight)
TV-150-STD	For Mice 1.25" ID Tube (15-40g body weight)
TV-150-LG	For Mice 1.5" ID Tube (20-50g body weight)
RTV-170	For Rats up to 120g
RTV-180	For Rats up to 350g
RTV-190	For Rats up to 500g

Red Tube Tailveiner® Restrainer

► Laboratory rodents are largely color blind, so a red tube simply looks like a comforting shelter
► Red Tube is transparent, allowing investigator to observe animal inside for normal body position and breathing
► Improved comfort for rats and mice during acute experimental procedures without sacrificing safety or welfare

Easy-to-use mouse and rat restrainer specifically designed for fast tail vein injections. Slotted tube permits rat or mouse to be quickly pulled in by the tail, then restrained by a plug which slides easily to accommodate any size rat or mouse, but locks automatically when handle is released. After dosing, handle is lifted and plug is easily removed. Includes free stopper/plug option.

MODEL	DESCRIPTION
TV-RED-150STD	For Mice, 1.25" ID (15-40g)
RTV-RED-170	For Rats, up to 120g, 1.75" ID
RTV-RED-180	For Rats, up to 350g, 2.75" ID
RTV-RED-190	For Rats, up to 500g, 3.25" ID

Rotating Tail Injector

Reduce time and increase productivity on mice tail injections and tattooing!

The only mouse restrainer in which the tail can be rotated. This feature provides for easy access to either vein in the tail for an IV injection. Accommodates mice weighing up to 45g. RTI is ideal to adequately restrain an unanesthetized animal while having the tail vein straight in line with user's eyes for a successful injection. A pattern of airholes provide ventilation as well as a "toe-hold" for the mice.

The unit sits comfortably on a bench top or in a laminar flow hood and it can be U.V. sterilized for use with immunocompromised mice. The raised base lets user rest their hands to administer the injection.

MODEL	DESCRIPTION
RTI	Rotating Tail Injector (for mice up to 45g)
RTI-I	Standard Replacement Tube
RTI-2	Smaller Replacement Tube,1.125" ID

Broome Restrainer

This restrainer offers ease of use and access to the rodent. Prevents animal's ability to turn and provides safety for the animal handler. To place animal in Broome Style Restrainer, loosen and remove nose piece and grasp animal by the tail. Slide animal's tail along longer open groove until animal is completely in cylinder. Slide nose piece into short groove on opposite side of restrainer and place it up to nose of animal. Ensure a snug fit. Perfect for injections or blood sampling.
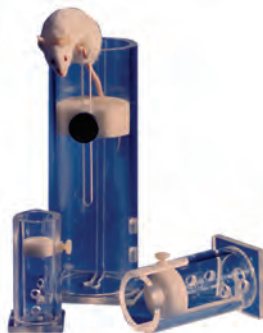
MODEL	DESCRIPTION	DIMENSIONS
BSRR-551	Broome Restrainer, 15-30g mice	1.25" dia x 3.375"
BSRR-551B	Broome Restrainer, 15-30g mice	1.5" dia x 4.5"
BSRR-552	Broome Restrainer, 30-125g	1.5" dia x 55"
BSRR-553	Broome Restrainer, 125-250g	2" dia. x 8"
BSRR-554	Broome Restrainer, 250-500g	2.5" dia. x 8.5"
BSRR-555	Broome Restrainer, 500-800g	3.5" dia. x 9"

Red Short Base (Shorti) Tail Vein Injection Tube

► Laboratory rodents are largely color blind, so a red tube simply looks like a comforting shelter

► Red Tube is transparent, allowing investigator to observe animal inside for normal body position and breathing

Tail vein restraint system, mounted on a wider baseplate allowing tail to drop vertically for greater range of motion during venipuncture. Use when intending to mount tube above (e.g. on blocks) or at edge of a work surface.

MODEL	DESCRIPTION
SHORTI-STD	Mouse Tail Vein Injection Tube, 1.25" ID, Red Tube

LE Series Restrainer

Perspex cylinders mounted on a flat black Perspex base. All models have free access through both extremes, by opening respective tilting door that is fixed by a screw at the upper part of restrainer. A hole at door base allows for whole tail to be available for tail injections/sampling, pulse transducer, etc. Lateral holes and slots allow for good ventilation and access to animal.

Mouse model has a black nosecone for a less stressful environment and entry, and also access in top of restrainer. Available space for animal can easily be adjusted by sliding doors and fixating with upper screws.

MODEL	DESCRIPTION
LE-50-14	LE Series Restrainer, mouse up to 25g
LE-50-16	LE Series Restrainer, mouse up to 35g
LE-50-18	LE Series Restrainer, mouse up to 50g
LE-50-19	LE Series Restrainer, obese mouse
LE-50-24	LE Series Restrainer, 300-440g
LE-50-25	LE Series Restrainer, 440-500g

Shop online at www.braintreesci.com

Economy Flat Bottomed Restrainers

Individual semicylindrical plastic restrainers in small, medium and large. Each unit has an open slot on the bottom (for intra-peritoneal injections), a hole on the top (for the neck), and a slotted tail piece (for intravenous injections). Front slots provide ample ventilation.

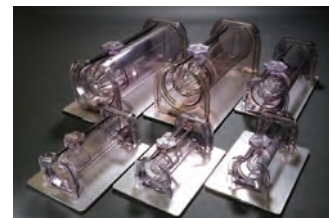| MODEL	DESCRIPTION
FB-S	Small Mouse Restrainer (for mice 15-30g) 1.5" D x 4" (3.81cm D x 10.16cm)
FB-M	Medium Rat Restrainer (for rats 30-125g) 2" D x 5" (5.08cm D x 12.70cm)
FB-M/L	Medium/Large Rat Restrainer (for rats 125-250g) 2.5" D x 6" (6.35cm D x 15.24cm)
FB-L	Large Rat Restrainer (for rats 250-500g) 3.25" D x 8" (8.25cm D x 20.32cm)

Solid Brass Mouse Restrainer

Designed to comfortably restrain a mouse for tail vein injections or sampling. Able to warm for animal comfort and vasodilatation of the tail. Long lasting – can be sterilized via autoclave, ETO, liquid, VHP. 2" x 4" solid brass restrainer maintains heat for extended periods. 2 lb.weight provides a stable and secure placement on lab bench
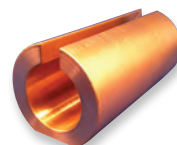
MODEL	DESCRIPTION
SAI-MBR	Solid Brass Mouse Restrainer

HumaneWay Rodent Restrainer

Tail Vein Restraint for Rats. Designed for smooth entry that prevents injuries and stress. Ideal for procedures on the tail, safe to sterilize in autoclaves.

MODEL	DESCRIPTION
HW-MR3	Humaneway Rodent Restrainer, Mice 30-50gr
HW-MR2	Humaneway Rodent Restrainer, Mice 20-40gr
HW-MRI	Humaneway Rodent Restrainer, Mice 15-30gr
HW-RR3	Humaneway Rodent Restrainer, Rat 400-520gr
HW-RR2	Humaneway Rodent Restrainer, Rat 160-450gr
HW-RR1	Humaneway Rodent Restrainer, Rat 100-160gr

Rubber Tipped Handling Forceps

The rubber tips help maintain a secure grip without causing harm, ensuring the well-being of the animals during experimentation, treatments, or examinations. The ringed tips have replaceable inserts made of soft, non-slip rubber. The rubber grippers ensure a secure grasp without causing damage to the skin or fur and provide precise control without causing unnecessary stress or harm to the animals. The forceps are 21 cm (8.25") long and are straight.

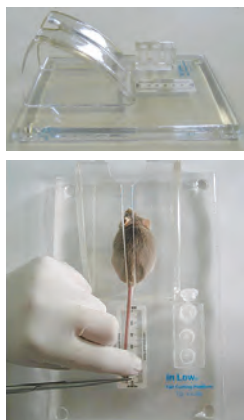| MODEL	DESCRIPTION
FC-503370	Handling Forceps
FC-504645	Replacement Tips

Tail Snipping Platform

For isolating DNA from transgenic animals for genotyping

Simply pull mouse tail through the slot, measure and collect tip in the vial.

- ► **Micro Tube Holder:** Collect tail tip directly in the prelabeled tube preventing DNA cross contamination
- ► **Measuring Ruler (mm):** Accurately measure tail length for cutting. Enhances IACUC compliance
- ► **Cleaning Slot:** Feces and urine are easily washed out with stream of water (minimizes cross contamination)

MODEL	DESCRIPTION
IL-200	Tail Snipping Platform

Tail Vein Injection Platform

Quickest and easy restraint – simply pull mouse tail through the slot and make injection! Non-grip surface, wide opening for easy access. Open slot for easy cleaning feces and urine easily washed away.
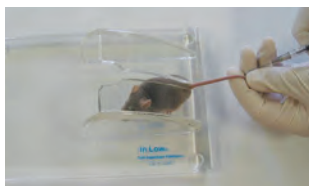
MODEL	DESCRIPTION
IL-300	Tail Vein Injection Platform

ECU™ Experimental Conditioning Unit

Conditions rats and mice for long experiments

Provides comfortable containment to facilitate repeated measurements of physiological and pharmacological parameters. Not a restrainer: animals are preconditioned (trained) to accept appropriate periods of confinement in the ECU. Blood pressure, clearance, and metabolism studies are better and easier using ECUs.

Molded plexiglass canopy hinged to a plexiglass base and tapered canopy with opaque plastic hood to protect animal from visual disturbances. Canopy length is adjustable for animal size and easy access to dorsal catheters and electrical leads. Base has a large through drilled slot for accessing ventral catheters, feces and urine. Four comfortable slots to support feet.

The Braintree Scientific ECU is set up in position with the required equipment. The animal is placed in the ECU and the catheters and leads connected to the appropriate devices.

For best results, animals should be conditioned to appropriate periods of confinement in the ECU. This is easily achieved by introducing animals to the ECU daily for increasing periods of time.

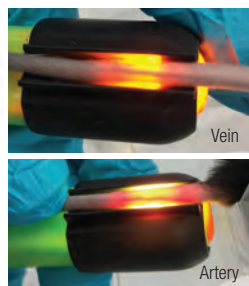| MODEL	DESCRIPTION
G-05	ECU less than 50g
G-1	ECU 50-120g
G-2	ECU 120-250g
G-3	ECU 250-350g
G-4	ECU 350-400g
G-5	ECU 400-800g

Veinlite TV®

With tail vein adapters

Mouse adapter   Rat adapter

Vein

Trans-illuminates veins in rats and mice. Adapter secures tail for visualization of veins and arteries. Comes complete with one mouse and one rat adapter.

Artery

MODEL	DESCRIPTION
VL-TV	Veinlite TV

VeinLite LED® for Swine

A new approach to the visualization of veins prior to and during vein access in swine. Rechargeable, portable 2 color LED Veinlite features 28 bright light emitting diodes (LEDs). The 22 bright orange and 6 red LEDs can be operated together or separately for maximum versatility and use on patients. Kit includes charger, adapters and 50 disposable covers.

MODEL	DESCRIPTION
VLED+	VeinLite LED® for Swine

Illuminated Rodent Tail Vein Unit

Illuminated rodent tail vein unit featurings "brite light" illumination system.

- ► Clear plastic tail insertion cone
- ► Formed white base housing batteries, on/off switch, and lights
- ► Base acts as battery charging unit
- ► Electrical plug for recharging batteries. (100 to 240 VAC capacity)

MODEL	DESCRIPTION
IRC-562	Illuminated Rodent Tail Vein Unit includes 2 rechargeable batteries . .

Mouse Tail Illuminator

Efficiently illuminates and warms mouse tail for easy injection or bleeding. Includes restraining tube and illumination source. Additional tubes available.

- ► Restraining tube slides off base for easy cleaning
- ► Illuminated slot for easy tail vein injection, etc.
- ► Sliding doors keep mouse gently restrained
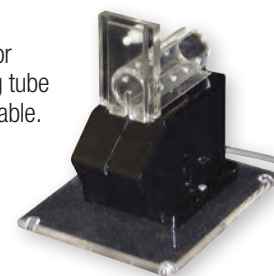
MODEL	DESCRIPTION
MTI	Mouse Tail Illuminator
MTI-1	Standard Replacement Tube
MTI-2	Smaller Tube 1.125"
MTI-3	Rotating Tube

Animal	Weight Range	Ball Diameter
Mice	25-150g	1.25mm
Rats	100-400g	2.25mm
Rats	350-500g	3.00mm
Other	over 450g	4.00mm

Reuseable Feeding Needles

4 per pack

MODEL	GAUGE	LENGTH	BALL DIA.	QTY
N-001	24ga	1" Straight	1.25mm	4
N-002	22ga	1" Straight	1.25mm	4
N-003	20ga	3" Straight	2.25mm	4
N-004	18ga	3" Straight	2.25mm	4
N-005	20ga	3" Curved	2.25mm	4
N-006	18ga	3" Curved	2.25mm	4
N-007	16ga	3" Curved	3.00mm	4
N-008	18ga	1" Straight	2.25mm	4
N-009	16ga	4" Curved	3.00mm	4
N-010	20ga	1.5" Curved	2.25mm	4
N-020	22ga	1.5" Straight	1.25mm	4

Value Priced Stainless Steel Feeding Needles

Non-Sterile

MODEL	GAUGE	LENGTH
N-VP-20-3S	20ga	3" Straight
N-VP-18-3A	18ga	3" AnLL-13
N-VP-18-3C	18ga	3" Curved
N-VP-20-15A	20ga	1.5" AnLL-13
N-VP-20-15C	20ga	1.5" Curved
N-VP-24-1S	24ga	1" Straight

Flexible Plastic (PTFE) Disposable Feeding Needles with Bite Protectors

Flexible plastic (PTFE) tube is covered at hub end with 304 stainless steel tubing, protecting tubing from damage due to biting during use. Plastic (PTFE) tube is softer than other tubing types, very flexible and translucent for easy confirmation of reagent delivery. Plastic luer hubs and soft silicone tips, non-toxic and non-pyrogenic.

Packaged 5 needles per sterile peel pouch/20 pouches per box.

MODEL	GAUGE	LENGTH	BALL DIA.	QTY
BG-9928	18ga	1.5"	2.0mm	100
BG-9923	18ga	2"	2.0mm	100
BG-9924	18ga	3"	2.0mm	100
BG-9926	17ga	3.3"	2.4mm	100
BG-9925	15ga	3.1"	2.8mm	100
BG-9927	15ga	3.9"	2.8mm	100

All prices subject to change without notice.

Sterile Malleable Disposable Feeding Needles

These needles feature plastic luer hubs and silicone tips and can be easily formed to desired shape.

100 sterile needles per box.

MODEL	GAUGE	LENGTH
D-001	20ga	1.5" Straight
D-002	18ga	2" Straight
D-003	15ga	3" Straight
D-004	20ga	2.75" Straight
D-005	15ga	3.75" Straight

Sterile Flexible Plastic (PTFE) Disposable Feeding Needles

Animal feeding needles (AFN) allow user to precisely dispense liquid to animal while minimizing the chances of esophogial piercing. Sterile, non-toxic, and non-pyrogenic, available in a variety of gauges and lengths.

100 sterile needles per box.

MODEL	GAUGE	LENGTH	BALL DIA.	QTY
DT-9928	18ga	1.5"	2.0mm	100
DT-9925	15ga	3.1"	2.8mm	100
DT-9920	20ga	1.5"	1.9mm	100
DT-9926	17ga	3.3"	2.4mm	100

Trocars

Skin tunneling needles (trocars) offer a quick and easy method for routing catheters and electrodes subcutaneously. Trocars are manufactured from thick walled medical grade stainless steel and have a semi-blunt 45 degree beveled tip or a stylet.
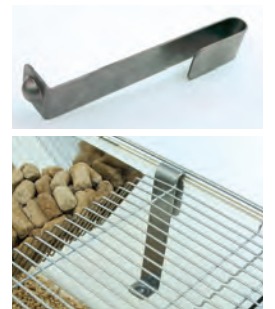
MODEL	DESCRIPTION
TRO-10-8	10G Trocar, 8" long, semi-blunt 45° tip
TRO-12-6	12G Trocar, 6" long, semi-blunt 45° beveled tip
TRO-7-12	7G Trocar, 12" long, semi-blunt tip
TRO-7-5	7G Trocar, 5" long, semi-blunt tip
TRO-7-6	7G Trocar, 6" long, semi-blunt tip
TRO-7-8	7G Trocar, 8" long, semi-blunt tip

Trocars with Stylet

TRO-STY-7B-12	7G Trocar, 12" long, semi-blunt tip with stylet
TRO-STY-14MS	14G Trocar, 3.35" long, tapered tip with stylet

Rodent Feeder Bar

► No special skills required and eliminates need for gavage procedure
► Reduce time! Administer dose to 10-15 animals in 5-10 minutes
► Mix drugs directly to any food matrix (peanut butter, yogurt, cheese)
► Confirm visually drug uptake by animals
► Works effortlessly for all rodents and small or large groups of animals
► Animals adapt to a feeder bar quickly

MODEL	DESCRIPTION
FD-BAR	Rodent Feeder Bar

Mini Capsules

For laboratory mice, rats and guinea pigs

► Ideal for materials that are insoluble, form poor suspensions, are affected by excipients or are odorous and distasteful, e.g., sustained release beadlets, paint flakes, chromic oxide marker

► For lower GI drug delivery size 9 has been used in rats >200gm and Guinea Pigs; size M has been used in mice >30gm. Capsule holders are available for dip coating in enteric solutions

► Size 9 can be used for intra-colonic delivery via rectal insertion in rats >200-250gm

► Save time and money by eliminating validation of suspension/solution homogeneity

► Eliminate excipients absorption affects

PARAMETER	SIZE 9EL	SIZE 9	SIZE M
Capsule body capacity	0.08ml	0.025ml	0.004ml
Fill weight (materials with density 1g/ml)	80mg	25mg	4mg
External Diameter Maximum	2.70mm	2.70mm	1.27mm
Length when locked maximum	23.2mm	8.4mm	8.4mm
Surface area locked capsule in sq mm, for enteric coating.	not applicable	68 ± 3 sq mm	31 ± 3 sq mm
Weight empty (cap and body) average[1]	17mg	10mg	~2mg
Colors available	clear and opaque	clear and opaque	white

[1]For a specific net fill weight tare the weight of each capsule body individually and then fill or use a pre-weighed amount of powder for each capsule.

Capsule Kit: Includes capsules, funnel, stand, tamper, dosing device and instructional video. Size 9 and 9el kits include 100 capsules. Size M kits include 50 capsules.

For easier dosing, we recommend the following aids:

Stainless Steel Dosing Syringe:
If dosing multiple animals, order additional syringes to allow them to dry between administrations. Syringes have a Luer lock design.

Stainless Steel Filling Funnel: Includes funnel, tamper, and stand. For precision filling on a balance.

Multiple Capsule Filler: Fill 40 capsules at a time to within ± 7-10% of average weight. Includes filler, tamper, and spreader.

Holder: Holds six capsules for enteric coating. Not for use with 9el as it will not pass through to the lower intestine.

Capsule Sinker: For determining dissolution time for a capsule. Designed for use with 9 & 9h; 9el & M

SINKER SIZE	WIRE DIA. (mm)	NO. OF SPIRALS	INNER LENGTH (mm)	INNER DIA. (mm)	WEIGHT (gm)
9/9h	0.5	5	10.0	4.0	0.16
9el	0.8	8	25.0	4.0	0.68
M	0.5	6	10.0	3.0	0.14

MODEL	DESCRIPTION	SIZE	QTY
X-KIT-9el	Rat Capsule Kit	9el	100 capsules
X-KIT-9h	Hamster Capsule Kit	9h	100 capsules
X-KIT-9	Rat Capsule Kit	9	100 capsules
X-KIT-M	Mouse Capsule Kit	M	50 capsules
A-CT-9el	Capsules	9el	100/container
A-CT-9h	Capsules	9h	100 capsules
A-CT-9	Capsules	9	100/container
A-CT-M	Capsules	M	50/container
X-SYR-9el	Stainless Steel Dosing Syringe	9el	each
X-SYR-9h	Stainless Steel Dosing Syringe	9h	each
X-SYR-9	Stainless Steel Dosing Syringe	9	each
X-SYR-M	Stainless Steel Dosing Syringe	M	each
X-FUN-9el	Stainless Steel Filling Funnel	9el	each
X-FUN-9h	Stainless Steel Filling Funnel	9h	each
X-FUN-9	Stainless Steel Filling Funnel	9	each
X-FUN-M	Stainless Steel Filling Funnel	M	each
X-FILL-9el	Multiple Capsule Filler	9el	each
X-FILL-9	Multiple Capsule Filler	9	each
X-HOLD-9	Holder	9	each
X-HOLD-M	Holder	M	each
X-SINK-9el	Capsule Sinker	9el	each
X-SINK-9-9h	Capsule Sinker	9 & 9h	each
X-SINK-M	Capsule Sinker	M	each

Dyets Powder Feeder Jar Setup

► Prevents tipping or moving of Dyets feeding jar
► 100% stainless steel for easy cleaning and durability
► Versatile design allows for placement in any cage corner
► Set contains jar, lid, follower, and holder

MODEL	DESCRIPTION
DYETS-M-SETUP	Complete Setup - 1 oz. Jar (individual mouse)
DYETS-SETUP	Complete Setup - 4 oz. Jar
DYETS-JAR	Feeding Jar - 4 oz. Clear Glass Jar, dia. 3" x 2"H
DYETS-FOL	Food Follower - 4 oz. Stainless Steel, 6 holes 1⅝" dia.
DYETS-LID	Deluxe Lid - 4 oz. Stainless Steel Snap-on Hole, dia. 1"

Water Bottles

100 ml glass bottles are graduated by 1ml and include a 2.5" straight drinking tube and stopper.

MODEL	DESCRIPTION
WTBR-S-BL	Water Bottle with 2.5 straight sipper tube, ball and stopper
WTBR-S-NB	Water Bottle with 2.5 straight open sipper tube and stopper

Nombrero Wet Diet Feeder

Suspended from cage top, Nombrero allows user to deliver wet diet, pellets and even nesting material while taking up no floor space. Hanging design satisfies animal's instinct to climb and forage for resources, while also preventing tipping, spillages and food contamination.

By eliminating contact between cage base and food receptacle, Nombrero not only stops bedding substrate from soiling foodstuffs, it can also reduce costs associated with continually replacing wet bedding. Reusable and easy to clean. Stackable design perfect for storage.

MODEL	DESCRIPTION
NOMBRERO	Nombrero Wet Diet Feeder - sleeve of 10

BioLITE Intubation Illumination System

FO-Light

FOS

ETT

LIB
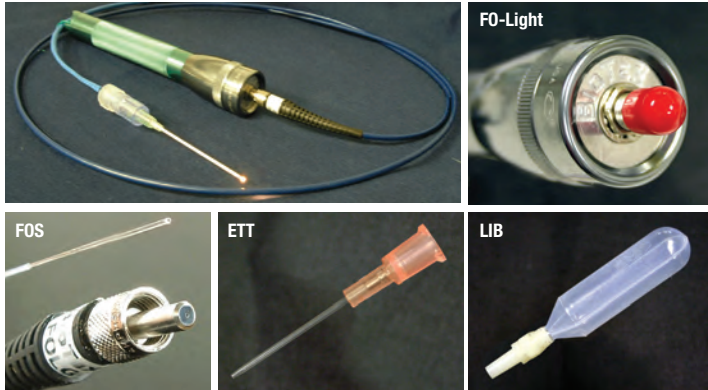
The BioLITE system provides better anatomical visualization and combines several tools into one reducing the intubation time making the intubation process fast and easy.

The BioLITE System consists of a family of products: fiber optic illuminator (FO-Light), fiber optic stylets (FOS), endotracheal tubes (ETT), and lung inflation bulbs (LIB) packaged in a variety of kits to meet the individual needs for a variety of research interests.

Unlike other flashlight based fiber optic illuminators, the FO-Light houses an optical system that provides highly efficient light coupling into small core fiber optics resulting in intense illumination. Without the optical system, intensity of light output is insufficient to visualize anatomical features, which is why other flashlight based fiber optic illuminators are not compatible with small core fiber optics.
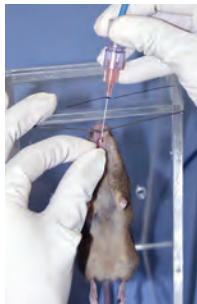
Using a small core fiber optic as both the stylet and guide wire, the FOS provides enough rigidity for applying mechanical force while remaining flexible enough to traverse convoluted paths. Light can also be delivered through the stylet/guide wire, enabling the user to illuminate the discrete places in the oropharynx directly where needed.

As accessories to the illuminator and stylets, endotracheal tubes and lung inflation bulbs have specific qualities and provide feedback making them essential to any intubation procedure. The endotracheal tubes are urethane based IV catheters that are softer and more flexible than PTFE based catheters, minimizing the trauma associated with intubation. Lung inflation bulbs provide a means for verifying correct intubation through direct visualization of chest distention, which is more reliable than observing mirror fogging or abdominal breathing.

Available as a Complete Kit (CO-Kit) that includes all the BioLITE System products for mouse and rat.

Kit contains all the necessary equipment to perform small rodent intubations fast, easy, and relatively painlessly.
► Fiber optic illuminator
► Appropriate size fiber optic stylet
► 5-pack of the appropriate size endotracheal tubes
► 3-pack of lung inflation bulbs

Though the BioLITE System was initially created for intubation, it remains a highly efficient small core fiber optic illumination system and can essentially be used in any application that requires intense illumination of a small space in a tortuous location.

For those interested in alternate applications or have no need for the intubation accessories, we offer a Stylets Kit (FO-Kit) that includes a mouse fiber optic stylet (FOS-400, 400µm core diameter), a small rat fiber optic stylet (FOS-600), and a fiber optic illuminator (FO-Light).

MODEL	DESCRIPTION
FOS-Kit	Stylets Kit (includes 1 FOS-400, 1 FOS-600, 1 FO-Light)
CO-Kit	Rodent Kit (includes 1 FO-Kit, 1 LIB-03, 1 ETT-16-05, 1 ETT-20-05)
004-2503	Lung Inflation Bulbs, 3 Pack (LIB-03))
004-2505	Mouse Endotracheal Tubes, 5 Pack (ETT-20-05)
004-2517	Mouse Endotracheal Tubes, 50 Pack (ETT-20-50)
004-2507	Rat Endotracheal Tubes, 5 Pack (ETT-16-05)
004-2518	Rat Endotracheal Tubes, 50 Pack (ETT-16-50)

Intubation Packs

For use in conjunction with the Rodent WorkStand. The intubation packs, a rat pack and a mouse pack, hold everything needed to directly visualize and quickly intubate with a minimum amount of trauma. Each pack is designed to hold all tools and supplies needed to perform quick, efficient and minimally traumatic orotracheal intubation of small rodents.

Intubation packs include specially designed and molded, autoclavable intubation speculum, lidocaine applicator, endotracheal tube guide wire, incisor loop and a brief video tutorial of how to perform intubations. Rat Pack also contains scissors, umbilical tape, and mirror for the verification of tracheal intubation. Mouse pack includes two sizes of Hallowell's mouse endotracheal tubes.

Packaged neatly and conveniently in a 13" x 8" x 2" polypropylene organizer box with each compartment labeled for contents and reordering information. Can be stored most anywhere and always ready for use.
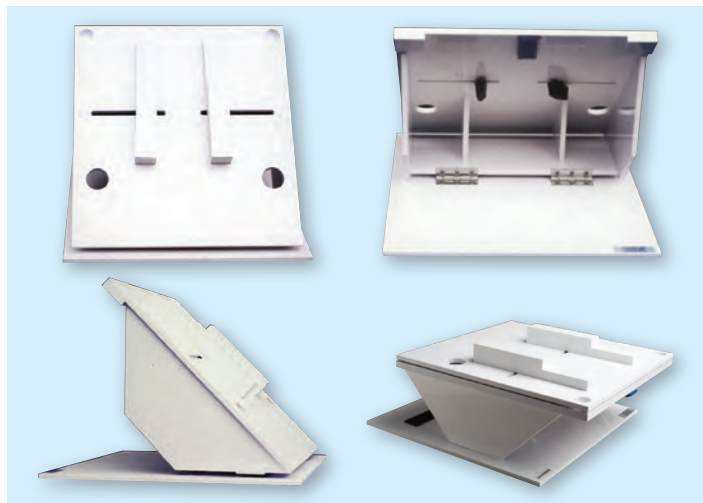
MODEL	DESCRIPTION
RW-A3746	Rat Intubation Pack
RW-A3747	Mouse Intubation Pack
RW-A6545	MDS Otoscope - not rechargeable.
RW-A3749	Welch Allyn NICAD Otoscope - rechargeable Includes charger
RW-A3754	Welch Allyn LI ION Otoscope lighter and brighter- rechargeable Includes charger

Replacement parts available online at braintreesci.com

Rodent Work Stand

Rodent Work Stand is designed to support rats, mice and similar small rodents in a stable and comfortable position for the technician during endotracheal intubation and intratracheal dose instillation and other similar procedures. 12" wide x 14" deep x 5.375" high when flat, tilted it is 9.5" high. (Flat: 30.48cm x 35.56cm x 13.65cm, tilted: 24.13cm high)

Heated work stand kit converts this work stand to a heated work stand.

MODEL	DESCRIPTION
RW-A3467	Rodent Work Stand
RW-HHP	Heated Pad Kit

BioLITE Stand

Simple durable stand is easy to clean, store, and is portable

Constructed from durable polycarbonate, this platform provides the perfect stage for intubating mice and rats of all sizes.

The animal is suspended from the incisor wire on the angled side of the stand. Three mounting positions are available to customize the placement of the animal on the stand in order to meet the user's needs. Two sets of posts are provided with each stand. Each post has three positions for the height adjustment to optimally accommodate user and animal.

Stand is constructed from a single piece of polycarbonate plastic with a seamless design. The top of the stand provides a hand rest for stabilization during intubation that is designed to support significant weight. Compact seamless design and its construction make this stand easy to clean. Will not crack with the use of harsh cleaning agents as with similar stands constructed from acrylic.

MODEL	DESCRIPTION
RIS-100	For Mice
RIS-200	For Rats

Rad Disk Micro3

Rad Disk Micro3
Weanling/Petri

Stainless steel holder for Rad Disk Micro3 (sold separately)

Rad Disk Micro3 Weanling/Petri is triple divided for irradiation of weanling sized mice. Also can be used without divider and jump guard system for two adult mice. Four cages fit stacked in stainless steel holder. Without divider system it can also be used as a petri dish application for growth and irradiation of cells/bacteria. Absolute filter lid permits higher air exchange than standard petri. Bacteria or cells requiring greater availability of oxygen or other gaseous mixture, can benefit from lack of pressure buildup within dish, and full, uninterrupted access and exchange of supplied gas or ambient air.

Three Rad Disk Micro3 or four Rad Disk Micro3 Weanling/Petri stacked versions available.

Steam autoclavable, medical grade polycarbonate construction mitigates attenuation of gamma source and allows germ-free rodent transport from cage to Gammacell® and return, using micro-isolation techniques. Modified stainless steel canister.

Specifications:
Rad Disk Micro3
Height assembled: 2.5"
Diameter assembled: 4.75"
Height with 3 units stacked: 7.5"
Material: Polycarbonate medical grade, nylon fasteners and screen, and absolute filtration filter media

Rad Disk Micro3 Weanling/Petri
Height assembled: 1.88"
**Diameter assembled:** 4.75"
Height with 4 units stacked: 7.5"
Material: Polycarbonate medical grade, nylon fasteners and screen, and absolute filtration filter media

MODEL	DESCRIPTION
IRD-M3	Rad Disk Micro3, each
IRD-M3W	Rad Disk Micro3 Weanling/Petri, each
IRD-FLT-M3	Replacement Filter
IRD-SSH	Stainless Steel Holder for Micro3 Weanling/Petri

Rad Disk™ and Rad Disk Mini™ Polycarbonate Rodent Microisolation Irradiator Cages
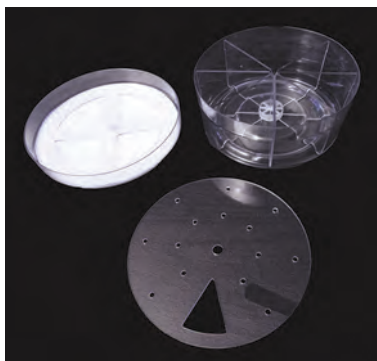
Protection for Irradiated Animals: Because Rad Disk™ and Rad Disk Mini™ are made entirely of polycarbonate plastic, it is autoclavable. The two cage sizes are designed to fit into radiation chambers 5" high and 9" diameter and larger. Used as instructed, Rad Disk™ and Rad Disk Mini™ prevent contamination of mice before, during and after irradiation. They are also a versatile carrier to protect rodents while transporting them in and out of facilities.

Cage Divider System: Rad Disk and Rad Disk Mini include a polycarbonate removable divider system which divides cages into four to eight compartments for irradiation. Used without dividers, mice can also free range which allows greater uniformity of dose delivery during irradiation.

Imbedded Jump Guard™: Rad Disk and Rad Disk Mini include a polycarbonate piehole cutout cover that can be easily rotated over each divided chamber to insert rodents and prevent escape or jump to adjacent chambers.

Protection from Contamination: Rad Disk and Rad Disk Mini are autoclavable with lid in place. Within a changing hood, animals are transferred from their housing into sterile protective environment of Rad Disk and Rad Disk Mini, using standard microisolation techniques. Lid contains a 3-ply filter which can be used up to 6 months, or 12 autoclave cycles. Lid has aligned air holes through which potential airborne contaminants are trapped on exterior of filter. After transferring animals into Rad Disk and Rad Disk Mini, animals can be transported to the radiation source, even if traveling through a contaminated environment.

Sterile Transportation: After irradiation at location outside of the animal facility, Rad Disk and Rad Disk Mini containing animals are prepared for re-entry into animal facility by placing a strip of plastic tape over each aligned row of airholes, completely sealing lid and allowing for liquid sterilization of exterior of cage prior to facility re-entry (check with facility management for SOP which may vary from institution to institution). Once decontaminated, taped cage can be taken to the sterile or clean change station, and animals may then be transferred back to their original or new cages. Tape can be removed from lid after transporting cage to wash area for reprocessing. Any contaminants are trapped on outside of filter between airholes and lid, so leaving tape in place prevents exposure to facility environment.

Rad Disk and Rad Disk Mini are easy to clean, store, and sterilize for use.

MODEL	DESCRIPTION
IRD-P-M	Mouse Irradiator Cage with Divider (polycarbonate) 8.875" D x 3.875"H (22.5cm D x 9.8cm H)
IRD-P-R	Rat Irradiator Cage with Divider (polycarbonate) 10.75" D x 4"H (27.3cm D x 10.2cm H)
IRD-FLT-M	Mouse Irradiator Cage Replacement Filter
IRD-FLT-R	Rat Irradiator Cage Replacement Filter

All prices subject to change without notice.

Rat and Mouse Pie Cages
Cages are easy to clean and to use

Circular cages hold up to 11 rodents for whole body irradiation. Notched removable lid can be dialed to any of the ventilated pie-shaped chambers. Also use for temporary transport or storage of animals for acute studies. The rat cages have tail slots for intravenous dosing.

MODEL	DESCRIPTION
MPC-1	Mouse Pie Cage: Unit dimensions: 8.5"D x 3"H (21.5cm D x 7.5cm H) Individual chambers feature 5cm base and 9cm length
MPC-2	Mouse Pie Cage with filter top and filter
MPC-FLT	Replacement Filter
RPC-1	Small Rat Pie Cage Unit dimensions: 16"D x 2.7"H (41cm D x 6.75cm H) Individual chambers: 10cm (base), 18cm (length)
RPC-2	Large Rat Pie Cage Unit dimensions: 18"D x 3"H (46cm D x 8cm H) Individual chambers: 11.5cm (base), 20cm (length)

Mouse Irradiation Chamber

► 1/8" (3.2mm) clear acrylic
► Flip-top lid for easy loading and unloading
► Perforated top allows air to circulate throughout unit
► Top incorporates a slot for filter material to improve contamination control
► Non-skid feet prevent unit from slipping and sliding

MODEL	DESCRIPTION
AK-MIC	Mouse Irradiation Chamber 6" D x 2" H (15.24cm D x 5.08cm H)

Shop online at www.braintreesci.com

Mouse Fixtures and Shields

Partial Body Irradiation Fixtures and Shields

Standard holding fixtures and corresponding lead shield for mice. Can be purchased separately or as a set.

Fixtures

Quad Head Exposure

MODEL	CONFIGURATION
Fixture Body Dia. 1" (25mm) <25g Mice	
MHS1-F-LF	Left Flank Exposure
MHS1-F-RF	Right Flank Exposure
MHS1-F-DF	Dual Flank Exposure
MHS1-F-NF	No Flank

Fixture Body Dia. 1.375" (35mm)

MHS2-F-LF	Left Flank Exposure
MHS2-F-RF	Right Flank Exposure
MHS2-F-DF	Dual Flank Exposure
MHS2-F-NF	No Flank

Size 1 (<25G Mice) Shield Body Diameter is 1" (25mm)

MHS1-S-LF	Left Flank Shield
MHS1-S-RF	Right Flank Shield
MHS1-S-DF	Dual Flank Shield
MHS1-S-NF	No Flank Shield
MHS1-S-B	Belly Shield

Size 2 Shield Body Diameter is 1.375" (35mm)

MHS2-S-LF	Left Flank Shield
MHS2-S-RF	Right Flank Shield
MHS2-S-DF	Dual Flank Shield
MHS2-S-NF	No Flank Shield
MHS2-S-B	Belly Shield

Quad Head Exposure

MHS1-HQ-BPS	>25g, Quad Base Plate and Shield
MHS1-HQ-SET	>25g, Quad Base Plate, Shield, 4 Restrainers

Natsume Aerosol Sprayers

KN-34700-1
KN-34700-2
KN-34700-4
KN-34700-3
KN-34700-5
KN-34700-6
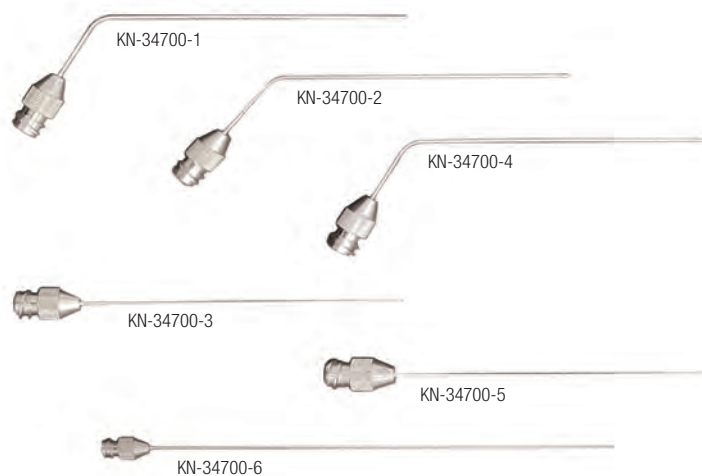
- ► Aerosol sprayers are used to spray viruses and drugs into the trachea
- ► Used for mouse, rat, guinea pig, marmoset, rabbit,and macaca fascicularis
- ► Widely used in research using bleomycin-induced pulmonary fibrosis models
- ► Syringe not included – Use a glass or plastic syringe with an internal capacity of 1ml or less. If a liquid whose amount is 1ml or larger is to be sprayed, the liquid must be filled several times

MODEL	DESCRIPTION
KN-34700-1	Curved Aerosol Sprayer for Mouse Total Length: W103mm; Functional length, from bend to tip: straight 80mm Inner diameter: 0.3mm; Outer diameter: 0.5mm
KN-34700-2	Curved Aerosol Sprayer for Mouse, Rat, Guinea Pig Total Length: W103mm Functional length, from bend to tip: straight 80mm Inner diameter: 0.5mm; Outer diameter: 0.8mm
KN-34700-3	Straight Aerosol Sprayer for Common Marmoset Total Length: W100mm Functional length, from bend to tip: straight 80mm Inner diameter: 0.5mm; Outer diameter: 0.8mm
KN-34700-4	Curved Aerosol Sprayer for Rat, Guinea Pig Total Length: W103mm Functional length, from bend to tip: straight 80mm Inner diameter: 0.8mm; Outer diameter: 1.0mm
KN-34700-5	Straight Aerosol Sprayer for Common Marmoset, Rabbit Total Length: W100mm Functional length, from bend to tip: straight 80mm Inner diameter: 0.8mm; Outer diameter: 1.0mm
KN-34700-6	Straight Aerosol Sprayer for Macaca Fascicularis Total Length: W180mm Functional length, from bend to tip: straight 80mm Inner diameter: 0.8mm; Outer diameter: 1.0mm

45 YEARS
1980-2025

Braintree Scientific

Canister Nebulizer

Modified Mouse Pie Cage
sold separately

Canister nebulizer with a dial on the top. Allows approximately 2 hours of therapy. Nebulization does not require oxygen (compressed air is sufficient). Use of distilled water is suggested rather than risk particulate from tap water.

Includes:
- ► Blue hose
- ► Canister nebulizer
- ► Chrome DISS fitting at top of canister
- ► 7' crush proof O_2 tubing from chrome fitting to air compressor and Schuco air compressor

MODEL	DESCRIPTION
NEB-CAN	Canister Nebulizer

9cc Medication Nebulizer

Pour in whatever dosage of liquid medicine, top off with distilled water. Approximately 20-30 minute treatment. Nebulization does not require oxygen. Horizontal and vertical set-up options.

Includes:
- ► Hospital grade Schuco air compressor
- ► Blue top medication nebulizer
- ► Plastic collar
- ► 7' crush proof O_2 tubing to air compressor
- ► White elbow hose connector

Horizontal

Vertical

MODEL	DESCRIPTION
NEB-MED-H	9cc Medication Nebulizer Horizontal Set-Up
NEB-MED-V	9cc Medication Nebulizer Vertical Set-Up

Modified Pie Cage

To accept aerosol delivery

A. Aerosol enters the PIE via tubing attached to the central core. Core is open on the top and solid on the bottom
B. PIE rotates so mice can be placed in individual sections
C. Aerosol exits each PIE section through one 3mm hole in the center of the outer edge
D. Aerosol is distributed to each PIE section via five 3mm holes
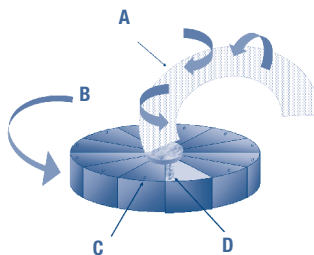
MODEL	DESCRIPTION
MPC-3-AERO	Mouse Aerosol Cage
RPC-1-AERO	Small Rat Aerosol Cage, 41cm D x 6.75cm H
RPC-2-AERO	Large Rat Aerosol Cage, 46cm D x 8cm H

Nebulizer Compressor

- ► Quiet operation - less than 60 dBA
- ► Compact and lightweight - just 3.5 lbs.
- ► Easy to use and clean
- ► Convenient cord storage compartment
- ► Substantial compressor pressure - 35-45 psig
- ► High compressor operating flow rate - 7-11 lpm
- ► Therapeutic particle size - 0.5 µm-5µm
- ► AC operation-120V 60 Hz

MODEL	DESCRIPTION
S5000	Nebulizer Compressor

EcigAero™Aerosol Exposure Apparatus

The EcigAero provides an important tool for studying the acute effects of vaping electronic cigarettes (ECigs) and the chronic effects of multiple ECigarettes a day for long periods of time by repeatedly exposing rodents to ECig aerosol in a home cage-like environment. This system provides a powerful toolkit for in vivo studies of ECig effects on cardiovascular, respiratory and nervous systems, metabolism and carcinogenesis as well as facilitating new therapeutic discovery. ECig addiction studies will have important implications in nicotine replacement therapy (NRT) for smoking cessation.

As electronic cigarettes are a relatively new product, studies are needed to determine their long-term detrimental effects. ECigs may contribute to nicotine addiction and are unlikely to discourage conventional cigarette smoking among youths, thus, generating a new market for nicotine dependence.

ECigs generate aerosol, not simple nicotine vapor as incorrectly claimed by the ECig industry. Mainstream and second-hand ECig aerosols not only contain nicotine and propylene glycol and/or glycerin, but also detectable levels of toxins including carcinogens and heavy metals such as formaldehyde, benzene, nitrosamines, cadmium and lead. Therefore health risk and toxicology studies on animal models exposed to ECig aerosol, not limited to nicotine, are urgently needed.

In order for drug abuse studies with animal models to be relevant to humans, it is necessary that the routes of drug administration, the physical properties (vapor or aerosol), the pharmacokinetics (PK) and target tissue concentrations of the drug are comparable between humans and animals.

Email Info@braintreesci.com for more information.

Shop online at www.braintreesci.com

Emergency preparedness with disposable cages

All Innovive cages are BPA-FREE

Both equipment failure and a natural disaster can be dealt with efficiently and safely using the Innovive disposable irradiated Innocage® Static rodent cages and pre-filled Aquavive® water bottles.

The Innovive disposable rodent caging disaster recovery and emergency planning solution allows user to:

► Maintain animals' change-out schedule with a supply of fresh irradiated static cages on schedule
► Provide a clean water supply to mice with pre-filled water bottles quickly and easily in any location
► Quickly evacuate IVC racks to a new lab location

Maximize storage space: Innovive disposable rodent cages and water pack arrive double-bagged, irradiated and boxed for easy storage and can be accessed as needed.

Static Disposable Cages

All Innovive static mouse cage lids fit the universal cage bottom, which provides 81" of floor space and 5" of headroom. All Innovive static mouse cage lids are delivered double-bagged and irradiated - 100 units per box. Innovive static rodent cages are designed for stand-alone use, no ventilated rack required.
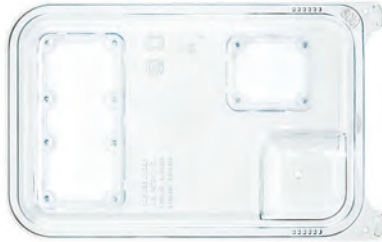
Innocage® Static Mouse

Specifications:
Dimensions: 14.7"D x 9.2"W x 5.5"H
Uses: Universal
Cage size: 8.8 oz
Capacity: 1.9 oz food tray

► Static Lid: Innovive disposable static cage is designed specifically for static rodent housing for mice; it is also an excellent resource for your Emergency Preparedness Plan
► Water: Aquavive Mouse bottle (empty or pre-filled), autowatering, and water pouches
► Food Tray: Standard, stainless steel or all plastic

Shop online at www.braintreesci.com

Disposable Cages for Rodent Transportation

The Innovive disposable transportation cage allows transportation of mice in the same cage that they are housed with a simple change of the lid, reducing animals' disturbance with a simple change of the lid.

Rodent Transportation Challenges

► Maintaining a low-stress and healthy environment for animals during long- and short-haul transportation
► Discrete and secure rodent caging
► Cost-effective transportation solution

Advantages of Innovive Transportation

► Healthy air for the trip of any length: large top filters provide excellent intracage airflow, which allows 5 mice to be housed in the Innocage up to 7 days
► Secure transport cage for mice: the cage's snap top secures animals during the trip
► No water or food tray needed: simply add a gel pouch and animals are ready to go
► Disposable caging is a cost-effective solution: remove the need to track, return and/or replace expensive traditional rodent cages

Innocage® Transport Mouse

Transport Lid - Whether moving animals a short or long distance, the Innocage Transport is a great solution. Simply replace an IVC lid with a transport lid to prepare the animals for relocation. Maintain a complete stock of transport cages for distributing animals from a breeding operation to primary housing areas.

Lid features:

► Imprinted timestamps for precise tracking of production and quality
► Extended corner tabs for improved ergonomics in opening the cage
► Added ridges at the front side of lid for better grip when handling cages
► Corner tab holes can be used for cage card rings, tags or as a mechanism to flag cages

Accessories
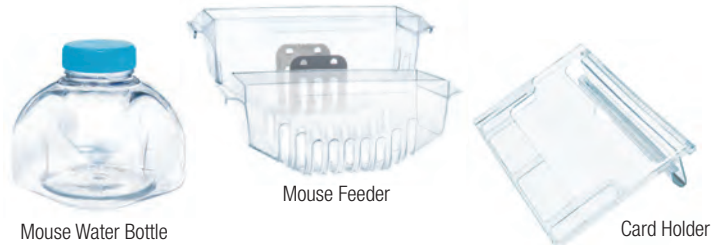
Mouse Feeder

Mouse Water Bottle

Card Holder

MODEL	DESCRIPTION	QTY
MSX2-SET-STD	Innocage Static Mouse (top and bottom)	100
MSX2-SET-C8	Innocage Static Mouse, pre-bedded 0.125" Corn Cob (set).	100
MSX2-SET-AD	Innocage Static Mouse, pre-bedded Alpha Dri (set).	100
MSX2	Innocage IVC Mouse Static Short, lid only	100
MSX4	Innocage Static Mouse Transport & Shipping, lid only	100
M-BTM	Innocage Mouse, bottom only	100
M-BTM-C8	Innocage Mouse, bottom only, pre-bedded 0.125" . . . . Corn Cob	100
M-BTM-AD	Innocage Mouse, bottom only, pre-bedded Alpha Dri	100
M-FEED-STD	Mouse Feeder, extended-use (standard)	100
M-FEED-SS	Mouse Feeder, extended-use (stainless steel)	100
M-WB-300	Aquavive Mouse Water Bottle empty	200
CRD-HLD-U	Card Holder	100

All prices subject to change without notice.

Deltaphase® Isothermal Pad

Maintains animals or cultures at 37°C for hours. Ideal for NMR!

Laboratory Evaluation

Rectal temperatures of two rats during six-hour experiment. (Animal weights 350g room temperature 24.5°C.) Animal on Deltaphase Isothermal Pad maintained near normal temperature for more than three hours.

The Deltaphase Isothermal Pad has been evaluated by researchers at a major medical center. Anesthetized rats (pentobarbital 45mg/kg) were placed on either an operating table or a Deltaphase Pad, and rectal temperature was monitored for six hours. The temperature of the rats on the conventional table fell rapidly and stabilized only near 30°C when pronounced shivering began. The rats on Deltaphase 8" x 8" x 0.75" Isothermal Pad maintained body temperature near a constant 37°C for 4 hours. Smaller pads will hold the temperature up to an hour. The smaller pad, the shorter the duration.

Based on fundamental thermodynamics, completely safe even with flammable gases. Uses no electricity, wires, or control box. Reusable.

Why you need them

Normal biochemical functions are based on the temperature of 37°C. In conscious animals, core temperature is maintained. During anesthesia, body temperature falls. Normal chemistry is disturbed, surgical tolerance is reduced, and recovery is slow.

Studies of mammalian cell biology are conducted at 37°C. in expensive incubators in order to maintain normal function. However, the manipulation of cultures in a clean hood or on the bench top almost always leads to significant cooling. At the least, this results in the displacement of growth curves. At worst it can lead to significant cell mortality.

To maintain temperature during experimental procedures, many methods are used. Coverings help, but are impractical during most procedures and cannot replace heat already lost. Electrical heaters must be carefully monitored to prevent overheating or oscillation. Electrical devices often interfere with recording equipment. They are a shock hazard in the presence of urine, blood, or culture media, and the spark of a thermostat might ignite a flammable anesthetic or solvent.

The Deltaphase Isothermal Pad is a unique approach to temperature stabilization. It is a source of heat which cannot overheat once it enters its phase change. It is economical in that it needs no tubes, wires or electricity. It is also safer than other devices because it needs no thermostat or controller and does not generate electrical signals. But it can maintain a small animal or a culture bottle at near normal and constant temperature for several hours.

The concept of the Deltaphase Isothermal Pad is derived from the basic thermodynamic principle that a phase change occurs at constant temperature.

A unique chemical solution, contained within a durable pouch, is in solid form at room temperature. When heated, the solution becomes fluid and the pad is ready to use.

When an animal or container is placed in contact with an activated pad, heat is transferred and the solution slowly undergoes a phase change. During this change, over 30 calories are available per gram of solution and the temperature remains constant. The pad remains isothermal until all of the liquid phase has solidified.

Experimental studies have shown that the pad temperature of 39°C is ideal for maintaining animal or cultures at 37°C. If desired, one or more pads may be placed within a foam box to create a bench top or portable incubator.

4" x 6" and 6" x 7.5" pads will take less time to activate and will hold temperature for approximately 30 minutes.

MODEL	DESCRIPTION
39DP	3 Pads and 3 Insulators, 8" x 8"
DP-PAD	1 Pad, 8" x 8"
DPIP	1 Pad, 6" x 7.5"
DP-SASB	1 Pad, 4" x 6"

Deltaphase® Operating Board

This compact operating board takes advantage of the Deltaphase principle to maintain animal body temperature during surgical or experimental procedures. An 8.5" square stainless steel operating surface lies in contact with an activated Deltaphase isothermal pad. The underside of the pad is insulated to provide a longer isothermal period. Molded wells are provided for sponges, instruments and anesthetic apparatus.

This board was designed by research scientists to be functional, durable, and easy to clean. Its low cost and safety make it appropriate for use in student laboratories. The unit is supplied with two Deltaphase pads, each pad measures 8" x 8" x 0.75".

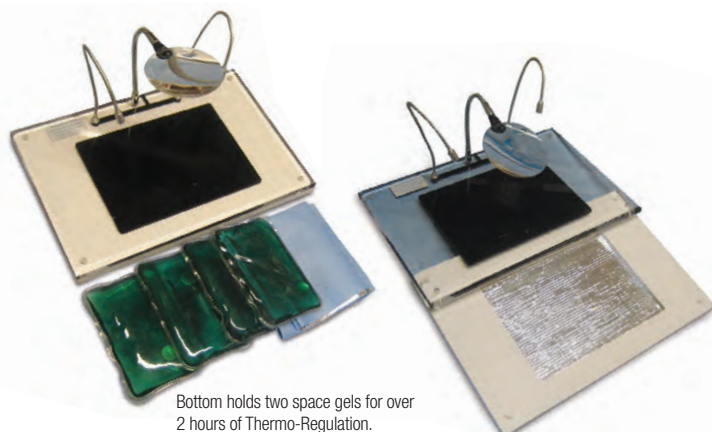| MODEL	DESCRIPTION
39OP	Operating Board, 2 Deltaphase Pads and 2 Insulators
39DP	3 Deltaphase Pads and 3 Insulators only (no board).
39OM	Operating Board, 2 Deltaphase Pads and 2 Insulators with magnetic board

Instruments shown not included.

Thermo Controlled Surgery Platform

Easily maintain animal body temperature during surgery!

Bottom holds two space gels for over 2 hours of Thermo-Regulation.

Space-age thermal reflector maximizes heat transfer.

► Two flexible LED lights provide direct illumination with no shadows and no heat

► Flex arm, non-obstructive rimless magnifying glass, 2.3 X main lens, 4.0 X inset lens. Allows continuous eye contact with object when moving into magnification area

► Limb restraints.

► 4 Space Gels for continuous heat or 2 Deltaphase® pads

► 2 Space Blankets to retain heat

► Thermo reflector and turbo heat sink to maximize heat transfer

► Non-skid feet for added stability

► Universal input power supply

► Size: 13.5"L x 9"W

MODEL	DESCRIPTION
ASS7T	Thermo Control Surgery Platform with 4 Space Gels
SPGL-S	Space Gel Pad 4"x6"
SPGL-M	Space Gel Pad 5.5"x10"
ASS7D	Thermo Control Surgery Platform with Deltaphase Pads
DPIP	Deltaphase Isothermal Pad, 6" x 7.5"

See microscope section for digital microscope attachments.
6" x 7.5" Deltaphase pad will takes less time to activate and hold temperature for approximately 30 minutes.

SpaceDrapes™

SpaceDrapes provide heat-retention capabilities while doubling as surgical drapes. They decrease recovery time and improve recovery prospect for animals that are under anesthesia by reducing radiant heat loss. They can be fenestrated and used as standard drapes. Available pre-packaged and pre-sterilized, or in rolls that can be sterilized by the user.

MODEL	DESCRIPTION
SPDR-TS	Space Drape 12" x 16", Flat (2 per pack)
SPDR-MPS	4" x 5" Mouse Pouches (1 sterilized package of 5 pouches)
SPDR-RPS	9" x 12" Rat Pouches (1 sterilized package of 5 pouches)

Thermo Controlled Recovery Pad

Animal recovery made simple and easy!

► Convenient size 13.5"L x 7.5"W

► 3 space gels for continuous heat

► 2 space blankets to retain heat

► Thermo reflector and turbo heat sink to maximize heat transfer

► Non-skid feet for added stability

► Fits into a standard 18"L x 9"W

Place animal on pad for recovery. Recovery pad will provide over 2 hours of Thermo-Regulation.

Ultra-Safe Thermo Regulation:

► Will not over heat or burn animal

► No electricity used
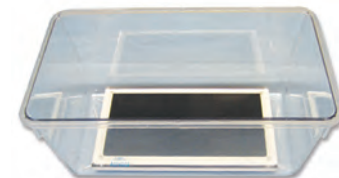
Shoe box cage not included.

MODEL	DESCRIPTION
TCRP	Thermo Control Recovery Pad (3 pads) (shoe box cage not included)
SPGL-S	Space Gel Pad 4" x 6"
SPGL-M	Space Gel Pad 5.5"x10"
DPIP	Deltaphase Isothermal Pad, 6" x 7.5"

6" x 7.5" Deltaphase pad will takes less time to activate and hold temperature for approximately 30 minutes.

SpaceGels™

SpaceGels heating pads are formed by sealing a super-saturated liquid solution in a pouch similar to an IV bag. The pouch also contains a small metal activator disc. When the disc is flexed, the solution "freezes" and solidifies, giving off heat in the process. The heating pads reach a maximum temperature of about 130°F. Because the heating process is physical, not chemical, the pouches can be reused several hundred times. To reset a SpaceGel heating pad, simply heat through steaming or boiling until all crystals have dissolved. Once cooled, it can be reactivated and used again.

SpaceGels have many uses. A SpaceGel can be placed between a cage containing a recovering animal and the table to provide heat during recovery. Small animals can be placed on the heating pads with some sort of barrier (towel, cloth, etc.) A SpaceGel can be wrapped and placed on a part of the animal to be warmed, or on the arteries if warming a large animal.

MODEL	DESCRIPTION
SPGL-S	Space Gel Pad 4" x 6"
SPGL-M	Space Gel Pad 5.5" x 10"

45 YEARS 1980-2025

Braintree Scientific

Warming Pads

T/Pump®

Provides safe and effective core body warming and cooling therapy with precise temperature control. Helps prevent body heat loss and hypothermia during surgery and recovery. Cooling setting delivers 50°F (10°C) therapy.

► For warming therapy: low (100°F/38°C) or high (107°F/42°C)
► Three-layer safety system with dual temperature sensors, dual microprocessors and a mechanical thermostat to ensure patient safety
► Illuminated LED control panel, comfortable handle, built-in hose, cord storage and translucent water reservoir designed for ease of use
► Uses tap water (and ice cubes if cooling)

MODEL	DESCRIPTION	UNITS
TP-700	C20X T/Pump Heating/Cooling Water Pump.	each
TP-D-12E	Multi-T Pad, 13" x 18" Single Patient	20/case
TP-D-22E	Multi-T Pad, 15" x 22" Single Patient	20/case
TP-D-26E	Multi-T Pad, 18" x 26" Single Patient	10/case
TP-R-22G	Multi-T Pad, 15" x 22" Reusable.	each

Heat Therapy Pump

The safest, most accurate localized heat therapy system available. Bright, easy-to-read display provides continuous real-time temperature. Digital controller uses proprietary software to manage users prescribed set-point temperature to within 1°F. Three temperature safety limits guard against possibility of overheating and Hi Limit Switches can be tested without taking unit apart! Mercury free! Uses tap water.

Specifications
Set-point range: 75°F (Off) to 107°F
Set-point accuracy: 0.5°F
Flow rate: ≥15gph
Reservoir: 50 oz (1,500 ml)
**Approvals:** µL 2601, CSA C22.2
No. 601-1 51DF

MODEL	DESCRIPTION	UNITS
HTP-1500	Heat Therapy Pump	each
AP-RC-18-5	Single Patient Pad, 20" x 17"	20/case
AP-RC-22G	Reusable Pad, 14" x 20"	20/case

Additional sizes available online at braintreesci.com.

Soft-Temp Reusable Veterinary Heating Pads

Soft-Temp reusable pads are the perfect solution for veterinary warming.

► Available in four sizes, pads fit table-tops, surgery tables and in kennel cages
► Soft-Temp pads work best with Adroit's HTP-1500 pump, but adapters are available for use with different pumps
► Pads may be used directly against the skin or covered with pillow cases or light-weight fabric for added protection against damage
► Heavy-duty pads can be patched if needed
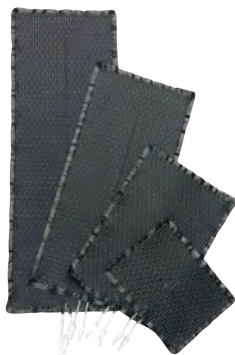
| MODEL	DESCRIPTION	SIZE
AP-AV-016	Small Soft-Temp Veterinary Heating Pads	16" x 20"
AP-AV-029	Medium Soft-Temp Veterinary Heating Pads	20" x 29"
AP-AV-044	Large Soft-Temp Veterinary Heating Pads	20" x 44"
AP-AV-057	X-Large Soft-Temp Veterinary Heating Pads.	20"x 57"
AP-AV-PATCH	Heating Pad Patch Kit	

Water Heated Hard Pads
Connects to Gaymar, Hamilton and other pumps

Durable polycarbonate construction. Scalpel, needle, and towel clamp proof. Smooth surfaces are easy to clean helping to prevent nosocomial infection. Highly puncture resistant.

MODEL	DESCRIPTION
HHP-05	6"W x 8"D Heated Hard Pad
HHP-1	9"W x 12"D Heated Hard Pad
HHP-2	15"W x 24"D Heated Hard Pad
HHP-3	21"W x 24"D Heated Hard Pad
HHP-ADP-G	Adapter to connect to Gaymar Pump
HHP-ADP-A	Adapter to connect to Adroit Pump

Heated Work Stand Kit
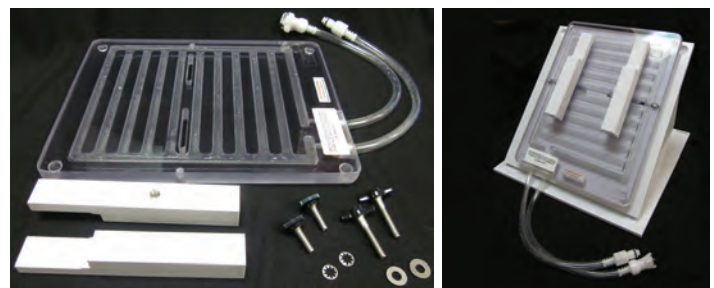
Heated hard pad kit converts user's workstand into a heated workstand. Unit installs quite easily and can be ready for use in minutes with new or existing Rodent Work Stand and circulating pump. Unit is also designed to be used as a stand-alone heated hard pad. Work stand not included.

MODEL	DESCRIPTION
RW-HHP	Heated Rodent Work Stand Kit

Rodent Work Stand

Rodent Work Stand is designed to support rats, mice and similar small rodents in a stable and comfortable position.

MODEL	DESCRIPTION
RW-A3467	Rodent Work Stand

Rodent Warmer

Minimize heat loss and improve surgical outcome

Can be used as a general warming system or with rectal probe (sold separately) for more accurate, core temperature monitoring. Heating pads are constructed of silicone rubber heaters.

53800

53850

Pre-Op: Can be placed underneath an induction chamber to reduce heat loss during anesthetic administration.

During: Place heating pad on a rodent surgery table or stereotaxic instrument to maintain and monitor temperature during surgical procedures. Mouse heating pad for use with Just for Mouse and Just for Mice Stereotaxic Instrument or Mouse and Neonatal Rat Adaptor. Rat heating pad for use with Lab Standard or New Lab Standard Stereotaxic Instrument.

Mouse Heating Pad   Rat Heating Pad   Cage Heating Pad

Post-Op: Cage heating pads can be placed in the animal's home cage for faster recovery following surgical procedures.

Three Operating Settings: Select from pre-programmed animal temperatures, countdown timer or use with thermal rectal probe

Thermal Rectal Probe
(sold separately)

► Pre-programmed animal temperatures
► Heating pad included (mouse, rat or home cage)
► Warmer X1 controls a single heating pad
► Warmer X2 controls two independent heating pads simultaneously

Specifications:

Temperature Control Range: 25-45°C
Temperature Resolution: 0.1°C
Heater Power: 24VDC@3Amax
Power Requirements: 120/240VAC (switchable), 50/60Hz, 75VA
Probe Dimensions: 0.62" (1.6mm) tip diameter
**Control Box Dimensions:** X1 5"L x 3.8"W x 1.5"H
X2 5.5"L x 5"W x 1.6"H
Mouse Heating Blanket Dimensions: 2.75" x 2.75" (7 x 7cm)
Rat Heating Blanket Dimensions: 6" x 6" (15.25 x 15.25cm)
Cage Heating Blanket Dimensions: 6.25" x 15" (16 x 38cm)

MODEL	DESCRIPTION
53800CB	Rodent Warmer Control Box X1 with cable
53800C	Rodent Warmer X1 with Cage Heating Pad
53800M	Rodent Warmer X1 with Mouse Heating Pad
53800R	Rodent Warmer X1 with Rat Heating Pad
53850CB	Rodent Warmer Control Box X2 with cable
53850C	Rodent Warmer X2 with Cage Heating Pad
53850CC	Rodent Warmer X2 with Two Cage Heating Pads
53850M	Rodent Warmer X2 with Mouse Heating Pad
53850MC	Rodent Warmer X2 with Mouse and Cage Heating Pads
53850MM	Rodent Warmer X2 with Two Mouse Heating Pads
53850R	Rodent Warmer X2 with Rat Heating Pad
53850RC	Rodent Warmer X2 with Rat and Cage Heating Pads
53850RR	Rodent Warmer X2 with Two Rat Heating Pads0
53810	Mouse Heating Pad, 7x7cm for 53800/53851 with cable
53812	Rat Heating Pad, 15.25x15.25cm for 53800/53851 with cable
53814	Cage Heating Pad, 16x38cm for 53800/53851 with cable
50304	Rodent Warmer Rectal Probe
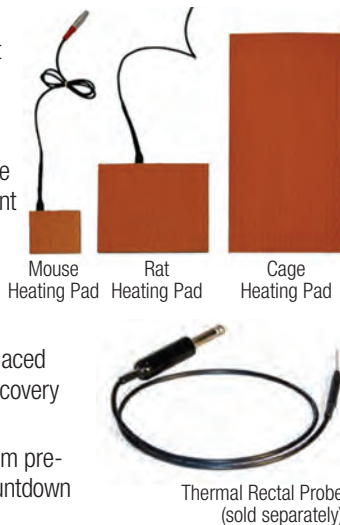
EZ-Heat Surgical Bed Warming System

HB-103-F

EZ-1000 Controller

HB-1000-F

E-Z Heat is an extremely user-friendly system that accommodates up to four connected beds to help maintain the patients' body temperature during surgical procedures. Patented warming system allows users to heat the induction chamber and warming beds simultaneously. Warming bed temperature ranges from 85°-104°F. Bed temperatures can be adjusted in the administrator options. Each warming circuit displays elapsed time and set temperature, which can be set individually. All settings made in the administrator options are password-protected to ensure security from tampering. Heating bed also allows option to mount MicroFlex Breather and works in harmony with all E-Z Anesthesia systems.

► 7" touch screen control display
► Stainless steel heating beds 10" x 4" (25.4cm x 10.2cm)
► Multiple languages available
► Remote access for added support
► Optional EZ-103H Microflex Breather easily attaches to bed with bracket

MODEL	DESCRIPTION
EZ-1000	EZ-1000 Controller
HB-1000-F	Heating Bed, Flat (10" x 4" x 1")
HB-1000-V	Heating Bed, V-shaped (10" x 4" x 1")
HB-103-F	Heating Bed, Flat, with EZ-103-H Microflex Breather
HB-103-V	Heating Bed, V-shaped with EZ-103-H Microflex Breather
HB-103-H	Microflex Breather for Heating Bed

Portable Small Animal Warming Plate

Use under animal to prevent hypothermia during surgery, post-surgery recovery and anesthesia induction. Small enough to place under animals during stereotaxic surgery.

► Temperature range: 31°C, 35°C, 45°C
► Can be placed on bench or in cage
► Non-skid feet for added stability
► HD power supply with universal input for use in any country (100 – 240 VAC, 50-60 Hz)
► 7" x4", stainless steel

MODEL	DESCRIPTION
PWPV	Portable Warming Plate with Variable Power Supply

Shop online at www.braintreesci.com

Single Temp Warming/ Induction Chamber

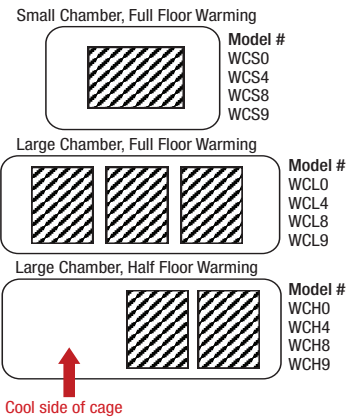Plug-in Power Supply Starts Warming

Cage Temperatures 30°C, 38°C

Post-surgery warming chamber/pre-surgery warming induction chamber provides continuous warmth to animals being anaesthetized before surgery or recovering from surgery.

Warming Chamber

► Standard small shoe box cage, 7" x 11" x 5", standard large shoe box cage, 10" x 19" x 8"
► Inlet/outlet port for gas anesthetic when used as an induction chamber
► Heavy duty power packs provide preset temperature. Universal input (110-220V)
► Warming element sealed under stainless steel floor. Bedding material can be used in cage
► Variable temp chambers: 30°C, 36°C, 38°C, 42°C, 49°C

Location of Warming Elements Under Stainless Steel Plate

Small Chamber, Full Floor Warming

Model #
WCS0
WCS4
WCS8
WCS9

Large Chamber, Full Floor Warming

Model #
WCL0
WCL4
WCL8
WCL9

Large Chamber, Half Floor Warming

Model #
WCH0
WCH4
WCH8
WCH9

Cool side of cage

Filter Top

► Allows animal to fully recover in chamber while unattended
► Includes membrane for sealing filter top and outlet port to exhaust gas when used as an induction chamber

Chamber includes one single temp UIHD-power pack, induction conversion kit and operating instructions.

Important Note: *Cage floor temperatures were measured with an ambient room temperature of 70°F (21°C). Room conditions and table temperature will slightly increase/decrease cage floor temperature.*

MODEL	DESCRIPTION
Small Chamber 7" x 11" x 5", Full-Floor Warming	
WC-S0	30°C Single Temp Small Warming/Induction Chamber
WC-S4	34°C Single Temp Small Warming/Induction Chamber
WC-S8	38°C Single Temp Small Warming/Induction Chamber
WC-S9	Variable Temp Small Warming/Induction Chamber*
Large Chamber 10" x 19" x 8", Full-Floor Warming	
WC-L0	30°C Single Temp Large Warming/Induction Chamber
WC-L4	34°C Single Temp Large Warming/Induction Chamber
WC-L8	38°C Single Temp Large Warming/Induction Chamber
WC-L9	Variable Temp Large Warming/Induction Chamber*
Large Chamber 10" x 19" x 8", Half-Floor Warming	
WC-H0	30°C Single Temp Large Warming/Induction Chamber
WC-H4	34°C Single Temp Large Warming/Induction Chamber
WC-H8	38°C Single Temp Large Warming/Induction Chamber
WC-H9	Variable Temp Large Warming/Induction Chamber*
Extra Power Packs	
WCPP-30	30°C Single Temp, UIHD-Power Pack
WCPP-34	34°C Single Temp, UIHD-Power Pack
WCPP-38	38°C Single Temp, UIHD-Power Pack
WCPP-VT	Variable Temp, UIHD-Power Pack (30°C, 36°C, 38°C, 42°C, 49°C).

Universal Input 110-220V, can be used with any warming chamber
*Actual temperatures are dependent on room conditions

Mini Thermacage with Diffuser

High quality warming cabinet for use where space is at a premium. Overall height of 30cm to enable use in any standard cage change station or procedure cabinet. With user operated temperature control, Mini Thermacage will increase it's gentle airflow to the set temperature and then maintain that while the unit remains switched on.

► Four individual compartments make it ideal solution for post-operative care and blood sampling procedures with small rodents
► Small footprint: 32cm x 40cm x 15cm (30cm with heater unit)
► Integrated P.I.D. controller, easy adjustments and 3 step operation
► Accurate 0°C to 50°C internal temperature control
► High front, spring loaded, hinged access doors for easy access and animal security
► Dividers provide 4, 3 or 2 compartment configurations
► Unique diffuser element ensures equal temperature is reached in all compartments

MODEL	DESCRIPTION
CS7A04A	Mini Thermacage – Clear/Red

Maxi Thermacage

Maxi Thermacage controlled warming chamber offers more space than Mini Thermacage. With a Type 4 cage base, floor area and height make this unit suitable for larger animals such as rats and guinea pigs.

Perfect solution for post-operative care and blood taking procedures. High quality robust animal warming cabinet with simple 3-step user instructions and precision temperature control.

► Four separate compartments each fitted with a sliding lid and vent control
► Removable dividers allow adjustable compartments
► Strong polycarbonate base (autoclavable)
► Accurate 0°C to 50°C internal temperature control
► 59cm x 38cm x 35cm footprint
► Comes in 3 parts for easy assembly, cleaning and storage

MODEL	DESCRIPTION
CS7A01A	Maxi Thermacage – Clear/Red

ThermaBox

An alternative to standard, clear Thermacage bases

Made of red translucent acrylic and has a hinged door on each compartment. Designed to be used with the same heater units used on the standard Thermacages.

► 40.5cm x 16.5cm x 15cm footprint
► Autoclavable up to 120°C

Heater top not included

MODEL	DESCRIPTION
HEATERBOX-R	ThermaBox

All prices subject to change without notice.

TCAT-2 Temperature Controller

TCAT-2 general purpose PID autotuning controller provides accurate temperature control in a variety of laboratory applications. Combined with a heat lamp or heating pad, TCAT-2 may be used to maintain the body temperature of anesthetized animals during surgery or stereotaxic procedures. TCAT-2 may also be used in cooling applications, such as to control independent perfusate cooling systems.

Realizing that laboratory applications are diverse, TCAT Controller is provided in several versions. The model specified depends upon whether a laboratory has a general or specific need for the controller.

MODEL	DESCRIPTION
TCAT-2AC	Controls AC only powered heating or cooling devices such as a heat lamp.
TCAT-2LV	Provides low voltage DC output for electrically sensitive applications where AC frequencies might interfere with other monitoring devices. Includes built in DC power.
TCAT-2DF	Includes both AC outlet for controlling primarily resistance loads such as heat lamps, AC powered warming blankets and a low-voltage, low noise, DC output for heating pads. Allows user to control a variety of different loads.

All TCAT-2 versions may be used with any of our extensive line of accurate Type T thermocouple probes, which act as the temperature feedback sensor.

Heating Plate

Optional direct current heating plate for small rodents (mice and rats). Standard plates are black anodized aluminum. Feedback sensor prevents overheating when used with TCAT-2 series.
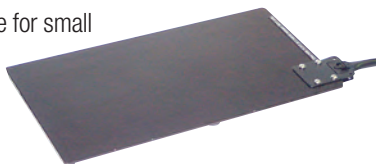
MODEL	DESCRIPTION	DIMENSIONS
HP-1M	Heating Plate	4.375" W x 8.5" L x .35" H
HP-4M	Heating Plate	1.5" W x 4" L x .35" H

Warming Blanket

Flexible blankets for use with TCAT system. Blankets use EAR infrared radiation to penetrate deep into the body. Antibacterial washable surface. 3' lead length. Over temperature protection: 100 Ohm RTD

MODEL	DESCRIPTION
WB-1	Small Warming Blanket 8" x 6"
WB-2	Large Warming Blanket 14" x 14"

Infrared Heat Lamp

18" swing arm provides easy adjustment of radiant heat to specimen. Supplied with a 250w (infrared) heat lamp bulb and a built in reflector. Chrome bulb guard easily snaps onto lamp housing after bulb is installed. Fits standard 110v AC socket. Power: 10 watts.

HL-1B

MODEL	DESCRIPTION
HL-1	Infrared Heat Lamp with "U" screw clamp for tables up to 2.25" deep .
HL-1B	Infrared Heat Lamp with base

MTC-1 Animal Micro Temperature Controller

► Control warming blankets and heat plates
► Control Range of ambient to 99.9°C
► Resolution 0.1°

Utilizing a precision highly stable platinum RTD as the feedback sensor, this controller will display and maintain a set temperature within ±0.1°C. Operates from a 12VDC supply and can control an output current up to 4 amperes (50 watts). Can also be used with an input voltage between 6 and 24VDC for both lower and higher power applications (up to 90 watts). LCD readout provides continuous display of temperature with 0.1° resolution. Set point is easily adjusted from just above room temperature up to 99.9°C via a 20 turn potentiometer. Momentary switch toggles display between set/run temperatures. Controller combined with either a heat plate or warming blanket is ideal for maintaining temperature of mice, rats and small animals.

MODEL	DESCRIPTION
MTC-1	Animal Micro Temperature Controller
MTC-HP-1M	Heating Plate for MTC, 4.375" W x 8.5" L
MTC-HP-4M	Heating Plate for MTC, 1.5" W x 4" L

Therma Waterproof Type T Thermometer

High-precision type T thermocouples providing ±0.2°C meter accuracy in a handheld instrument.

Includes Hold, Max and Min functions and Backlight Switchable °C or °F. Includes a traceable calibration certificate with actual test data. Allows a "system-cal" adjustment to offset any probe errors. Compact, easy-to-operate and reliable. Choose probes from a broad line of type T thermocouples.

MODEL	DESCRIPTION
TW2-107	Therma Waterproof Type T Thermometer
TW2-1000	Small Attache Case, fits 1-2 probes

Thermalert Monitoring Thermometer

► Large digital display - reads to 0.1°C in clinical range 25-45°C
► High stability - no calibration necessary
► Safe, low voltage battery operation
► Long battery life - 1200 hours

Economical, easy to use thermometer is intended for continuous monitoring in the laboratory. Four "C" batteries last for 1200 hours. A variety of fast reading microprobes and special animal probes are available for the TH-5. Can be supplied with analog output for lab applications where strip chart recording is needed.

Analog output available at extra cost. Approx. IOmV per °C

| MODEL	DESCRIPTION
TH-5	Thermalert Monitoring Thermometer
TH-5A	Thermalert Monitoring Thermometer with analog output
TT-S-5	Thermalert Stand

Hand Held Rodent Thermometer

► 1 T1 channel
► -200ºC to 390ºC temperature range (according to probe) (for 18 to 28ºC ambient temp.)
► Resolution: 0.1°C
► Functions: records max, records min, hold
► 2.5 measurements/sec refreshing screen
► Time measurement display from start with dedicated key
► Includes carry case and batteries (9V)
► Rectal probe sold separately
► Accepts all type "T" thermocouple probes
► RS-232 output exports data to programs such as Excel (software not included)
► Large backlit digital display and time measurement.

MODEL	DESCRIPTION
TK-8851	Hand Held Temperature Measurement Thermometer

Animal Rectal Probes
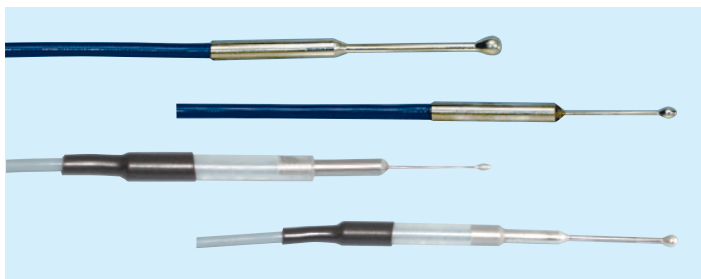
For fast intermittent measurements. The isolated sensor can be used with monitoring equipment where electrical interference from other electrodes may be present. Reinforced strain relief for applications where probe is in more frequent use. Smooth ball tip, 1" long stainless steel shaft, 0.059" dia. 0.125" tip diameter, 5' lead length. Time constant 0.8 secs.

The RET-4 and RET-5 animal rectal probes are for very small animals and neonatal mice. Flexible polyurethane sheath with smooth rounded tip. 36" long (can be made longer). Time constant 0.18 seconds. Max temp. 140°C. May be sterilized by Gas (ETO), gluteraldehyde solution or autoclave.

MODEL	DESCRIPTION
RET-1	Rectal Probe for Rabbits
RET-2	Rectal Probe for Rats - 1" long, 0.59" dia., 0.125" tip dia. .
RET-3	Rectal Probe for Mice - 0.75" long, 0.028" dia., 0.065" tip dia.
RET-4	Rectal Probe for Very Small Animals, 0.032" dia.
RET-5	Rectal Probe for Neonatal Mice, 0.02" dia.
RET-2-ISO	Rectal Probe for Rats with isolated sensor
RET-3-ISO	Rectal Probe for Mice and Neonatal Rats with isolated sensor
DSP-1	Disposable probe sheaths, 1,000/pk

Flexible Implantable Probes - IT Series

Can be used for tissue implantation, measurement of small volume liquid samples, rectal temperatures in baby mice, etc. Totally sheathed in chemical resistant Teflon. Quite rugged. Max temp. 150°C. Isolated. Type # designates needle gauge (or one gauge smaller in thin wall).

MODEL	DESCRIPTION
IT-14	0.050" diameter, constant 0.3 seconds, 3' lead length
IT-18	0.025" diameter, constant 0.1 seconds, 3' lead length
IT-21	0.016" diameter, constant 0.08 seconds, 1' lead length
IT-23	For ultra fast measurements and use on micro-size specimens. Sensor lead only 0.009" dia. Tissue implantable with 23ga needle (supplied). Rather fragile. Max. temp. 150°C. Time constant 0.005 secs. 3' lead. Teflon coated, isolated.
IT-1E	IT-18 with sensor bead exposed. Combines the ultra-fast response of IT-23 with the Teflon sheath strength of IT-18. Time constant 0.005 seconds, isolated.

Infrared Thermometer

Measures cutaneous temperature of small rodents (mouse and rat) **very fast and contactless.** Reliable and non-invasive method to measure skin temperature and can then be correlated to rectal temperature.

Optical dimension and position of IR sensor allows measurements on very small surfaces without allowing sensor to get wrong values arrived from integration of environment temperature. Allows **easy measurements even on mice tails** - with high accuracy and repeatability.

This thermometer does not replace a rectal one: cutaneous measurement should be correlated with usual rectal temperatures (see our RET-2 and 3 Rectal Probes for rodents). IR-B153 thermometer is especially accurate on a temperature range from 25-40°C and proves to be useful for other lab applications as well. Please note: it is impossible to provide correlation tables between skin and rectal temperatures, as the correlation depends on the animals, their stress, etc.

MODEL	DESCRIPTION
IR-B153	Infrared Thermometer

Rodent Thermometer with Print-out

The TK-9882 thermometer for core temperature with built-in printer is combining digital accuracy and easy reading with a large backlight LCD screen and a great number of functions and accessories. Ideal for exact and fast measurements of core temperature on rats and mice (memory-stored or paper-printed). The two separate channels T1 and T2 allow differential measures with the room air temperature, while the display shows both T1 and T2 channels as well as the difference T1-T2. It has a resolution of 0.1 ºC and internal memory able to store up to 99 manual temperatures or 4,000 automatic temperatures in the "data logger mode." It is equipped with an internal thermal printer to directly print your measurement on a ticket. The date, time and a settable ID number will be printed on user action. Includes black plastic case, Batteries (4 x AAA). Rectal probe sold separately.

MODEL	DESCRIPTION
TK-9882	Rodent Thermometer with Print-out

VIGILITECH

STRESS-FREE VITAL SIGN MONITORING FOR SAFER RESEARCH
transforming preclinical animal studies with uncompromising care and data integrity

heart rate   breathing rate   SpO2   temperature

MARTA Compassionate Vital Sign Monitoring System

The MARTA Pad is a groundbreaking, patented, contact-free monitoring system designed to track vital signs without causing distress to animals or researchers.

► CONTINUOUS MONITORING - Track vital signs such as heart rate and breathing continuously.

• HEATING PAD FUNCTIONALITY - Also functions as a heating pad, providing warmth and comfort to research subjects.

• ANAESTHESIA DEPTH REGULATION - Regulate anesthesia depth, ensuring minimal stress for animals and robust outcomes.

• SEAMLESS INTEGRATION - Integrates seamlessly with various equipment such as Stereotaxic frames and two-photon microscopes.

• FULL STERILIZABLE - The MARTA Pad is fully sterilizable for maximum hygiene.

• SCALABILITY - Monitor multiple animals simultaneously, accommodating the needs of large-scale experiments.

MARTA serves as a comprehensive solution for conducting vital signs measurements, aiding in daily research endeavors. It enables observation and monitoring of animals without direct visual contact. With its ability to promptly respond to fluctuations in heart rate and respiratory rate, vital signs can be precisely adjusted and monitored. MARTA's user-friendly wireless operation and straightforward cleaning process make it a convenient tool to work with. Seamlessly integrates into your existing experimental environments ensuring effortless incorporation without disruption. Minimizes data inconsistencies across studies, labs, and institutions, enhancing the reliability and reproducibility of research findings. Run parallel experiments more effectively for a more comprehensive exploration of research questions within the same timeframe. New benchmark in accuracy, surpassing traditional methods such as ECG with a less invasive approach and a deviation rate of less than 1%. CE-certified and adheres to the 3R-principles for humane research, ensuring ethical standards are met with precision and care.

MODEL	DESCRIPTION
MARTA	Vital Sign Monitoring System
MARTA-REC	Marta Probe

MARTA Frame Heated Rat Extension

MARTA frame is an advanced heated extension designed for seamless integration with MARTA pad for preclinical studies involving rats. For the first time, MARTA frame, when paired with MARTA pad, enables easy, contact-free vital sign monitoring for rats during procedures, enhancing both precision and animal welfare. Integrating MARTA pad into the frame is effortless - just slide the pad into place for a quick setup. This intuitive design allows you to position the rat directly onto the heated pad. Even though the rat is only partially on MARTA pad, the heated frame ensures that the entire animal remains warm, enabling instant monitoring and immediate access to vital signs. The frame is magnetic and can be combined with magnetic posts, holders, restrainers or magnetic anesthesia masks. MARTA frame features an integrated suction system that effectively removes inhalant anesthetic residues, ensuring a safer and cleaner surgical environment. The suction system is compatible with 14mm tube connectors and 6mm silicon tubes. The frame is easy to clean and fully sterilizable.
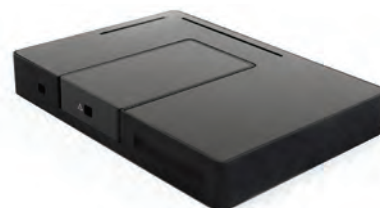
MODEL	DESCRIPTION
MARTA-FRAME	MARTA Heated Rat Extension

MARTA Box for contact-free vital sign monitoring

The MARTA box introduces contact-free vital sign monitoring during anesthesia induction and recovery. It can be easily placed on top of the MARTA Pad, which is leakproof and compatible with various gas mixtures for optimal anesthesia exposure without needing to touch or move the animals. This setup effectively prevents hypothermia by maintaining a controlled temperature throughout both the induction and recovery phases. The box features a removable top for easy animal placement and is made from red transparent plexiglass to minimize light-induced stress. It also includes an integrated suction system that efficiently removes inhalant anesthesia residues, ensuring a cleaner and safer environment. Easy to clean and fully sterilizable, the box is ideal for maintaining lab hygiene and performance.
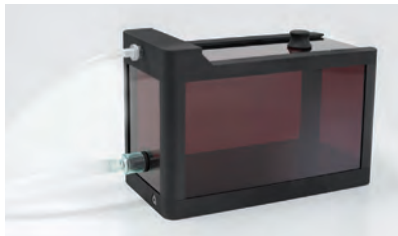
MODEL	DESCRIPTION
MARTA-BOX	MARTA Box

MARTA Anesthesia Induction/ Warming Box

The Heated Anesthesia Box is designed to provide a stress-free environment during anesthesia induction and recovery when performing preclinical in-vivo studies. Made from red transparent Plexiglas, the box minimizes light-induced distress while ensuring a leakproof and secure environment for optimal exposure to various gas mixtures. The sliding top facilitates easy placement, minimizing handling stress. The box is heated to tackle the frequent problem of hypothermia during anesthesia, creating a controlled environment that reduces heat loss. This contributes to a safer and more comfortable experience for the animal, potentially improving the quality of your research results. The box includes an efficient system for straight forward removal of inhalant anesthesia residues, providing a cleaner and safer environment for both the animal and the researcher. The box is compatible with 14mm and 22m tube connectors. The Heated Anesthesia Box is easy to clean and fully sterilizable, making it an ideal choice for maintaining optimal hygiene and sterility within your lab.

MODEL	DESCRIPTION
MARTA-ANES-R	Rat Induction/Warming Chamber
MARTA-ANES-M	Mouse Induction/Warming Chamber

MARTA Mouse Stereotaxic Adapter

The MARTA stereotaxic adapter mouse is engineered to elevate the precision of stereotaxic surgeries on mice, offering for the first time easy, contact-free vital sign monitoring during these procedures. It seamlessly converts your rat stereotaxic frame for mouse surgeries and is compatible with standard frames and manipulator arms, it ensures a versatile and efficient setup. By inserting MARTA pad into the adapter, you can streamline your surgical setup while ensuring no compromise on vital sign monitoring.

MODEL	DESCRIPTION
MARTA-ADP-ST	Stereotaxic Adapter, Mouse
MARTA-ADP-BS	Stereotaxic Adapter Base Only

45 YEARS 1980-2025

Braintree Scientific

MARTA Mouse Stereotaxic

The MARTA Stereotaxic Mouse is a precision platform designed for stereotaxic surgery on mice, while also enabling, for the first time, easy, contact-free vital sign monitoring throughout the procedure. This platform provides flexibility to suit your current setup. It allows you to use your existing posts by screwing them onto the platform (base-only version) for increased stability and immediate use. This versatile extension is compatible with all commonly used rat stereotaxic U-shaped frames and manipulator arms, making it a versatile addition to your lab. The platform features an integrated suction system that effectively removes inhalant anesthetic residues, ensuring a safer and cleaner surgical environment. The suction system is compatible with 14mm tube connectors and 6mm silicon tube. Featuring a robust, easy to clean, and user-friendly design, the MARTA Stereotaxic Mouse ensures a sterile environment and improves your surgical efficiency, delivering reliable, precise results and enabling comprehensive monitoring for every stereotaxic procedure.

MODEL	DESCRIPTION
MARTA-STER-M	Mouse Stereotaxic
MARTA-STER-M-BS	Mouse Stereotaxic Base Only

MARTA Rat Stereotaxic

The MARTA Stereotaxic Rat is designed to optimize your existing rat stereotaxic U-shaped frames for surgery on rats, providing, for the first time, easy, contact-free vital sign monitoring during these procedures. This extension includes a heated base plate, which addresses the common issue of hypothermia during animal anesthesia by providing consistent warmth, since the rat is only partially positioned on the MARTA Pad. The heated base plate can be purchased with or without the rat stereotaxic U-shaped frame (base-only version), depending on your needs. This versatile extension is compatible with all commonly used rat stereotaxic U-shaped frames and manipulator arms, offering flexibility and ease of integration into your current setup. The platform features an integrated suction system that effectively removes inhalant anesthetic residues, ensuring a safer and cleaner surgical environment. The suction system is compatible with 14mm tube connectors and 6mm silicon tube. Featuring a robust, easy to clean, and user-friendly design, the MARTA Stereotaxic Rat ensures a sterile environment and enhances your surgical performance, offering a stable, accurate platform for detailed monitoring during all your stereotaxic surgeries.

MODEL	DESCRIPTION
MARTA-R-ST	Rat Stereotaxic
MARTA-R-BS	Rat Stereotaxic base only

MouseOx® Plus Pulse Oximeter

MouseOx Plus is the second generation of the original pulse oximeter for mice, rats and other small animals. It is clinically validated and has been used and cited in a multitude of published studies.

► Noninvasive physiological monitor for anesthetized and conscious subjects
► Measure arterial saturation, heart rate, breath rate, temperature and more
► Measures heart rates of 90-900 bpm
► Monitor up to 16 subjects
► MRI compatible with our non-magnetic versions of rat foot and mouse thigh sensors
► Standard software (included) for basic monitoring: heart rate, saturation (Sp02), breath rate, breath distension and pulse distension
► Premium software includes temperature and MRI monitoring (purchase of sensors required). Trending charts, real time recording options, file markers, and quick averaging diagnostic feature for spot-checking
► Conscious applications software includes enhanced filters and control algorithms for use on conscious, moving subjects

MODEL	DESCRIPTION
SLS-015000	MouseOx Plus Base System, analog output for heart rate for anesthetized monitoring ONLY, USB, universal cable, power supply and 2 sensors

Additional Options

SLS-015007	Premium Recording Module (last 2 min. chart), recording and data analysis capabilities
SLS-015002	Conscious Monitoring Module (must have SLS-015000 and SLS-015007 to work)

*Via a separate sensor

Small Animal Enclosures

Our Conscious Animal Enclosures provide a convenient environment for using the MouseOx® Plus to monitor or collect data on conscious mice or rats. Includes hardware, enclosure and Instech arm.

► Tether/Wire management
► Swivel Mount & Lever Arm
► Low Torque Slip Ring
► Low-Stress Environment

MODEL	DESCRIPTION
SLS-015050	Conscious Measurement Enclosure for Mice with kit, arm and lid - for use with MouseOx Plus
SLS-015051	Conscious Measurement Enclosure for Rats with kit, arm, and lid - for use with MouseOx Plus

Shop online at www.braintreesci.com

MouseOx® Plus Non-invasive Sensors

► Easily applied by one person
► Monitor both anesthetized and conscious unrestrained subjects
► Obtain several physiological parameters with a single sensor

MODEL	DESCRIPTION	SIZE
SLS-015025	CollarClip with blank clip, conscious rat >500g	2XL
SLS-015023	CollarClip with blank clip, conscious rat 101-300g	L
SLS-015022	CollarClip with blank clip, conscious rat 31-100	M
SLS-015021	CollarClip with blank clip, conscious unshaved mice >15g, all mice >20g, rats 5-30g	S
SLS-015024	CollarClip with blank clip, conscious rat 301-500g	XL
SLS-015020	CollarClip with blank clip, conscious unshaved mouse 1-15g, shaved mouse 1-20g	XS
SLS-015034	MousePaw Sensor	—
SLS-015032	Mouse Thigh Sensor, anesthetized mouse <60g, rat ≤100g	—
SLS-015033	Rat Foot Sensor, anesthetized rat >100g	—
SLS-015031	ThroatClip, anesthetized rat >500g	2XL
SLS-015029	ThroatClip, anesthetized rat 101-300g	L
SLS-015028	ThroatClip, anesthetized rat 31-100g	M
SLS-015027	ThroatClip, anesthetized unshaved mouse >15g, all mice >20g, rat 5-30g	S
SLS-015030	ThroatClip, anesthetized rat 301-500g	XL
SLS-015026	ThroatClip, anesthetized unshaved mice 1-15g, shaved mouse 1-20g	XS
SLS-015036	6' Temperature Sensor, sensor only	—
SLS-015042	12' Temperature Sensor, sensor only	—
SLS-015037	20' Temperature Sensor, sensor only	—

MouseOx® Multiplexer

Sensor switching unit allows one MouseOx® Plus to monitor and record data for up to 8 or 16 subjects. Accessory allows users to monitor multiple subjects, one at a time, using one control unit. Choose automatic or manual switching. Summary screen shows subjects being monitored by Multiplexer as well as all physiological parameters reported by MouseOx Plus®.

MODEL	DESCRIPTION
SLS-015015	16 Channel Multiplexer, 120V *(does not include universal cables)*
SLS-015038	8 Channel Multiplexer, 120V *(does not include universal cables)*
SLS-015040	8 Channel Multiplexer with Temperature, 120V *(does not include universal cables)*
SLS-015006	1' Patch Cable, MouseOx Plus® to Multiplexer Data Cable
SLS-015018	6' Universal Cable for MouseOxPlus, Multiplexer
SLS-015019	12' Universal Cable for MouseOxPlus, Multiplexer

STARR-Link™ Plus

Output beat-by-beat MouseOx® data in analog form to another recording system.

Starr-Link™ analog output module provides real-time analog voltage outputs of MouseOx® data. STARR-Link transmits all MouseOx® data at 15 Hz, using a 0-5 VDC scale. Connects easily to computer with a USB cable. It has no external power supply and is automatically recognized by MouseOx® software. No additional software is needed.

MODEL	DESCRIPTION
SLS-015008	STARR-Link Plus

AIMS Neonate and General Rodent Tattoo Systems

Simple, quick and easy permanent animal identification

Convenient comprehensive kits for the humane tattoo identification of neonate or adult mice and rats. Each kit is provided with a comprehensive training guide and instruction DVD and all the tools needed to safely and efficiently tattoo rodents. For over 25 years, AIMS tattooing techniques are performed on unanesthetized animals and produce easy-to-read permanent ID's. AIMS tattoo pigments and supplies have been demonstrated to be **safe** and **non-toxic**. Tattoo identification is cost effective with an average disposable cost of about 2¢ per neonate and 5¢ per adult rodent.

The NEO-9 Neonate Tattooing System

For tattooing P0-P15 neonate rodents of any color/strain. Neonate tattoo identification is a practical and humane alternative to toe clipping (non-invasive). Toe tattoos allow user to use existing numbering system without removing the toe. Included supplies will tattoo 2000 neonates.

The AIMS ATS-3 General Rodent Tattoo System

Supplies and accessories to tattoo 3,000 weanling rodents and larger. The detailed training guide and instruction DVD provide step-by-step guidance with detailed illustrations. Use numbers, letters, lines, dots, and/or colors to permanently ID any color/strain mouse or rat.

Can be used for neonate rodent tattooing when purchased with the neonate accessory package.

NTS-02 Micro Tattooing Platform

Large Lab Animal Tattoo System

AIMS ATS-3L large lab animal tattoo system is a compact tattoo kit specifically developed for tattoo identification of large laboratory animals (hamsters, guinea pigs, ferrets, rabbits, NHP, swine – anything larger than a mouse/rat).

Quiet Tattoo Machine version also available

Reduces noise level which leads to a calmer animal, 54% lighter, better balance, less hand fatigue.

MODEL	DESCRIPTION
NEO-9	Neonate Rodent Tattoo System Includes Lab Animal Tattoo Identification Vol. 1, Neonate Mice & Rats and DVD Instruction Video
NEO-9Q	Quiet version of the NEO-9
ATS-3	General Rodent Tattoo System Includes Lab Animal Tattoo Identification Vol. 2, Adult Mice & Rats and DVD Instruction Video
ATS-3Q	Quiet version of the ATS-3
ATS-3L	Large Lab Animal Tattoo System with instruction book
ATS-3LQ	Quiet version of the ATS-3L
NEO-AP	Neonate Accessory Package
NTS-01	Micro Tattooing Platform

Large Lab Animal Upgrade Package

LLA-AP	Adds custom accessories and detailed instructions to easily tattoo identify large lab animals.

For additional supplies visit braintreesci.com

Somark Automated Tattoo Machine & Starter Kit

Somark Automated Tattoo Machines provide consistent, accurate and permanent ID that can be clearly read without additional training. On average less than 25 seconds to apply. System provides the ability to identify mice using alpha or numeric characters or a combination of both. Two styles of ink, black and UV green.

ELI Labstamp® for Mice between 14 and 21 Days

ELI Labstamp® (Early Life Identification) is the first fully automated animal identification system for research mice between 14-21 days. Starter kit includes: applicator machine, one restraint, US plug system, UV thumb light, one each ELI red needle, blue needle, orange needle, purple needle, tail oil and ELI tail gauge.

Labstamp® for Mice 21 Days and Older

Starter kit includes: applicator machine, one small restrainer, one large restrainer, 3 yellow needles, 3 green needles, tail oil, tail gauge, DVD and quickstart guide.

MODEL	DESCRIPTION
01-99200-DSK	ELI Labstamp® Express Starter Kit for mice between 14-21 days
01-99100-DSK	Labstamp® Express Starter Kit for mice 21 days and older

Additional items and replacement inks available online at BraintreeSci.com

Aramis Micro-tattoo System

Micro-tattooing forceps with disposable hypodermic needle. Easily readable on pigmented or albino animals. Quick and easy to apply. Almost infinite ID numbers. Sterile disposable hypodermic needles. Includes 1 oz. Ketchum green tattoo paste, 1 aluminium planchette, plastic holding case, 2 practice hypodermic needles.

MODEL	DESCRIPTION
MTK-ARAMIS	Complete Microtattoo Kit
MTK-1	Green Tattoo Paste, 1 oz.
MTK-5	Green Tattoo Paste, 5 oz.

RFID Transponders for Animals

Unique ID 125C453B 38.4°C Core Body Temp
SN101_G4_003
Study #101, Group #4, Mouse #3

Radio frequency identification provides laboratories with a secure method to identify animals. Unified information devices (UID) provides implantable transponders, readers, and multiple tag programming that is compatible with any LIMS system. UID also creates customized software solutions based on individual laboratory processes in order to computerize Excel sheets. UID transponders and readers integrate flawlessly with Provantis®, Pristima™, PDS, Topaz, and many others for easy and secure data collection.

Implantable RFID Chips for Mice

► Smallest transponder on the market
► 1.4mm x 8.5mm in a sharp cannula
► Sterile and individually packaged

UC-1485

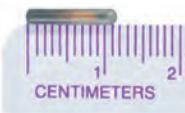| MODEL	DESCRIPTION	QTY
UC-1485-24	Programmable Mouse Microchips, 1.4mm x 8.5mm	24
UC-1485-198	Programmable Mouse Microchips, 1.4mm x 8.5mm	198
UC-1485-990	Programmable Mouse Microchips, 1.4mm x 8.5mm	990

MiniMax Programmable Microchip

► Small mice (including 10 day old neonate mice)
► Size 1.23mm x 8.3mm
► Implantable: IP, SQ in small mice (as young as PND 10)

MODEL	DESCRIPTION	QTY
UC-1283-B150	MiniMax Programmable Microchip 1.2 x 8.3 .... Blister Cannula, 17G Introducer Needle	150
UC-1283-D20	MiniMax Programmable Microchip 1.2 x 8.3 .... Disposable Injector, 17G Introducer Needle	20
UC-1283-B30	MiniMax Programmable Microchip 1.2 x 8.3 .... Blister Cannula, 17G Introducer Needle	30

Implantable RFID Chips for Rats

► Most widely used size for rodents and other animals
► 2.1mm x 12mm in a sharp cannula
► Sterile and individually packaged
► Temperature available

UC-2112

MODEL	DESCRIPTION	QTY
UC-2112-24	Programmable Microchips, 12mm x 2.1mm	24
UC-2112-198	Programmable Microchips, 12mm x 2.1mm	198
UC-2112-990	Programmable Microchips, 12mm x 2.1mm	990

Implantable Temperature and Programmable Microchip

► High degree of accuracy to ±0.1°C
► 2.1mm x 13mm in a sharp cannula
► Sterile and individually packaged
► For use in mice, rats, primates and other species
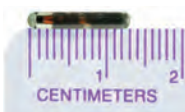
UCT-2112

| MODEL	DESCRIPTION	QTY
UCT-2112-24	Temperature & Programmable Microchips, ... 13mm x 2.1mm	24
UCT-2112-198	Temperature & Programmable Microchips, ... 13mm x 2.1mm	198
UCT-2112-990	Temperature & Programmable Microchips, ... 13mm x 2.1mm	990

UID Readers

UID offers a wide range of reliable and cost-effective RFID transponder readers to meet the individual researcher's needs. UID readers are available for either stationery or mobile applications for convenient and efficient data collection. These readers are designed to work with all UID encrypted transponders to ensure an accurate and secure read each time. They are fully compatible with all Laboratory Information Management Systems (LIMS) and other software programs for seamless data transfer and computer integration.

MODEL	DESCRIPTION
URH-2	LabScan Portable Reader, Medium Range, Temp Compatible
URH-1L	Handheld Bluetooth LF, Medium Range, Temp Compatible, requires UBC-14 battery charger
UBS-200L	Reader Base Station, Temp compatible, internal antenna, external antenna wand with programming available with Pi Suite Software
UDT-100L	Low Frequency Desktop Reader, Temp Compatible
UBC-14	Li-Ion Charger for URH-1 Reader

Transponder injectors

MODEL	DESCRIPTION
USI-1	Syringe Injector, Spring loaded 5/pack
UPGI-Q	Pistol Grip Injector with Ejector

UID Mouse Matrix System
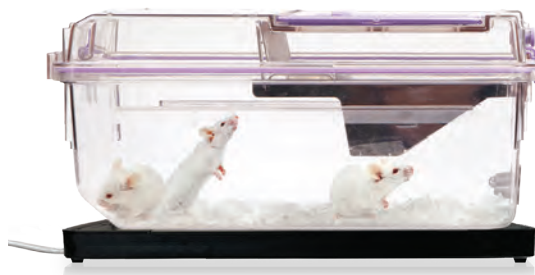
The UID Mouse Matrix Home Cage Monitoring System revolutionizes the way you monitor your mice, offering continuous tracking of behavior, activity, and overall health without disturbing them in their natural environment. By minimizing disruptions, invasive procedures and stress on the animals, it ensures more precise and reliable data collection, eliminating the need for invasive procedures. Enhance the quality of your research and the well-being of your mice with cutting-edge technology. The UID Mouse Matrix is a radio-frequency identification (RFID) reader board placed underneath each cage to monitor the movement, location, and temperature of socially-housed mice within their home cage environment. This continuous monitoring system operates around the clock (24/7), collecting data in real-time and providing researchers an immediate insight into temperature variations and activity levels. Convenient and easy to use - simply insert the UID temperature-sensing microchip into each animals, place the cage on the reader board, and collect your data! The complete system includes 2 Matrix plates, Data Collection Controller, PoE Switch, Software and Cables. UID Temperature microchips and injector are sold separately.

MODEL	DESCRIPTION
UMX-800-2	Mouse Matrix System
UMX-800	Integrated Antenna Array Aystem
UMX-ECABLE-9-B	9' POE Ethernet Cable for UMX Matrix Plate

MicroChip ID Transponders

LID573S

IM-300C

Mini and Nano Transponders feature short thinwalled delivery needle that allows improved control when injecting even the smallest species. Connecting the cannula to injection device is achieved via luer lock fitting ensuring a firm, stable interface when injecting the chip. Suitable for large scale animal applications.

Transponder is encapsulated in special, biocompatible glass, individually pre-sterilized and packaged in a bubble pack. Ready for application with its own disposable needle and 6 adhesive labels featuring the ID code in human readable (alpha-numeric) and barcode 39 format.

LID573S pocket reader allows direct communication with a PC or laptop device. Large amounts of data can be transferred more quickly due to rapid processor speed. Windows-compatible downloadable software package available. Use LID560 pocket reader when USB communication interface is not needed.

Kit includes injector gun, 100 transponders with lancet and barcode labels.

MODEL	DESCRIPTION	QTY
ID100B-1.4MM	1.4 Mini Transponder Kit 8.2mm x1.4mm	100
ID100A-1.4MM	1.4 Mini Transponders 8.2mm x1.4mm	50
ID100B-1.25MM	1.25 Nano Transponder Kit 7mm x1.25mm	100
ID100A-1.25MM	1.25 Mini Transponders 7mm x1.25mm.	50
IM-300C	Luer Lock Injector Device	1
LID573S	Pocket Reader with USB Communication	1
LID560	Basic Pocket Reader without USB Communication . .	1

Small Animal Ear Tag

Stainless steel applicator is designed to seal tags with minimal pressure, while providing a secure seal. Applicator can be used with or without the spring. Spring applies slight closing pressure to help hold tag in applicator prior to sealing.

MODEL	DESCRIPTION
EP-1005-S1	Stainless Steel Small Animal Ear Tag Applicator
EP-1005-1	Small Animal Ear Tags (1,000 pieces)

Custom numbering available. Visit braintreesci.com for details

Ear Puncher

A small and efficient ear puncher with spring action. Allows user to come closer when marking animal and is also equipped with a sloped edge for a clean cut. Autoclavable, but should be lubricated afterwards for long and trouble free usage. 11cm long with a 2mm diameter hole.

MODEL	DESCRIPTION	HOLE DIAMETER
EP-A7020	Ear Puncher	2mm

La Pias Ear Tags

Animal identification made easy

Specially suited for use with small lab and research animals (mice, rats and other rodents). Light weight easy-to-read tags allow for trouble-free identification.

► Ear tags are individually numbered (additional numbering online)
► Available in 5 colors
► Once applied, they cannot be easily removed
► Laser-etched number provides durability
► Stainless steel (non-colored) and customized tags available – call or visit braintreesci.com

Ear tag applicator required for attachment

MODEL	DESCRIPTION	COLORS	NUMBERS
567-7920	Ear Tag, Mouse	5 colors	1-20
567-7940	Ear Tag, Mouse	5 colors	21-40
567-80100	Ear Tag, Mouse	Red	1-100
567-80200	Ear Tag, Mouse	Red	101-200
567-81100	Ear Tag, Mouse	Green	1-100
567-81200	Ear Tag, Mouse	Green	101-200
567-82100	Ear Tag, Mouse	Blue	1-100
567-82200	Ear Tag, Mouse	Blue	101-200
567-83100	Ear Tag, Mouse	Light blue	1-100
567-83200	Ear Tag, Mouse	Light blue	101-200
567-84100	Ear Tag, Mouse	Black	1-100
567-84200	Ear Tag, Mouse	Black	101-200
567-8520	Ear Tag, Rat	5 Colors	1-20
567-8540	Ear Tag, Rat	5 Colors	21-40
567-86100	Ear Tag, Rat	Red	1-100
567-86200	Ear Tag, Rat	Red	101-200
567-87100	Ear Tag, Rat	Green	1-100
567-87200	Ear Tag, Rat	Green	101-200
567-88100	Ear Tag, Rat	Blue	1-100
567-88200	Ear Tag, Rat	Blue	101-200
567-89100	Ear Tag, Rat	Light blue	1-100
567-89200	Ear Tag, Rat	Light blue	101-200
567-90100	Ear Tag, Rat	Black	1-100
567-90200	Ear Tag, Rat	Black	101-200
567-91	Ear Tag, Applicator		
567-92	Ear Tag, Backing only, 100/pack		

Ear Punch Pincher

These pinchers were developed after having several testimonies from customers with sore wrists and thumbs from using small ID punchers. The Ear Punch Pincher relieves stress on user during ID marking as it requires a very gentle pressure to cut a hole. Stainless steel puncher has a sloped edge which provides a cut rather than a punch, which minimizes animal discomfort. Autoclavable, but should be lubricated afterwards for long and trouble free usage. The little puck holds the lid of the Eppendorf tube, so the biopsy sample falls perfectly into the 1.5 mL tube.

MODEL	DESCRIPTION	HOLE DIAMETER
EP-AT-7000	Ear Punch Pincher	2mm
EP-AT-7075	Ear Punch Pincher	2.75mm

New! C-Type Ear Identification Punch for Small Animals

Variable hole diameter ear punch allows user to select four types of hole diameters by operating the turntable.

► Overall length: 160mm
► Hole diameter: φ1.5, 2.0, 2.5, 3.0mm

MODEL	DESCRIPTION
KN-293	C-Type Ear Identification Punch for Small Animals

Fish Fin Punch Pincher

These pinchers were developed after having several testimonies from customers with sore wrists and thumbs from using small ID punchers.

Fish Fin Punch Pincher relieves stress on wrist during ID marking as it requires a very gentle pressure to cut a hole.

Stainless steel puncher has a sloped edge which provides a cut rather than a punch, which minimizes animal discomfort. Autoclavable, but should be lubricated afterwards for long and trouble free usage.

MODEL	DESCRIPTION
FFP-AQUA	2.75mm punch

Ear Punch

Scissor Style Ear Punch

MODEL	DESCRIPTION
EP-S-901	1mm Scissor Style Ear Punch
EP-S-902	2mm Scissor Style Ear Punch

Clipper Style Ear Punch

► 2mm
► Small animal ear punch

MODEL	DESCRIPTION
EP-900-CLP	Clipper Style Ear Punch

Mice and Rat Ear Punch

Mice and rats circular truncated-cone shaped probe is designed to punch ear tissue easily. Total length 135mm.

MODEL	DESCRIPTION
KN-292-2-1	Hole dia. 1.5mm
KN-292-2-2	Hole dia. 2mm

Shop online at www.braintreesci.com

Animal Markers

Unlike permanent markers and art markers, which can contain chemicals harmful to animals, Animal Marker uses "legal pigments," which are approved and regulated by the Japanese Ministry of Health, Labor and Welfare, for use in food, drugs and cosmetics. Pigments are nontoxic and devoid of any hazardous materials. For use on the rodent's coat. Color will not remain on the animal's skin. Not for use on black fur.

MODEL	DESCRIPTION	QTY/PK
50440	Animal Markers, Blue, Standard Tip	2
504401	Animal Markers, Blue, Standard Tip	1
50441	Animal Markers, Green, Standard Tip	2
504411	Animal Markers, Green, Standard Tip	1
50442	Animal Markers, Red, Standard Tip	2
504421	Animal Markers, Red, Standard Tip	1
50443	Animal Markers, Yellow, Standard Tip	2
504431	Animal Markers, Yellow, Standard Tip	1
50444	Animal Markers, Orange, Standard Tip	2
504441	Animal Markers, Orange, Standard Tip	1
50445	Animal Markers, Blue, Fine Tip	3
504451	Animal Markers, Blue, Fine Tip	1
50446	Animal Markers, Green, Fine Tip	3
504461	Animal Markers, Green, Fine Tip	1
50447	Animal Markers, Red, Fine Tip	3
504471	Animal Markers, Red, Fine Tip	1
50448	Animal Markers, Yellow, Fine Tip	3
504481	Animal Markers, Yellow, Fine Tip	1
50449	Animal Markers, Orange, Fine Tip	3
504491	Animal Markers, Orange, Fine Tip	1
50450	Animal Markers, Black, Standard Tip	2
504501	Animal Markers, Black, Standard Tip	1
50451	Animal Markers, Black, Fine Tip	3
504511	Animal Markers, Black, Fine Tip	1

Oppen Identification Markers

Exclusively made for laboratory animals for use on tail and skin of mice and rats. Also suitable to mark ears, skin, etc. during surgeries.

Available in five colors allowing user to identify the marking not only on albino mice but also on tails of colored mice such as C57L/B6. For short period identification (remarking every 3-4 days). Less stressful method for animals and easier for user. Durability of ink may vary depending on strain and individual differences. Color appearance may differ depending on environment lighting.

MODEL	DESCRIPTION	QTY/PK
KN-297-B-6	Oppen Marker, Black	6
KN-297-G-6	Oppen Marker, Green	6
KN-297-P-6	Oppen Marker, Pink	6
KN-297-LB-6	Oppen Marker, Light Blue	6
KN-297-V-6	Oppen Marker, Violet	6
KN-297-B-1	Oppen Marker, Black	1
KN-297-G-1	Oppen Marker, Green	1
KN-297-P-1	Oppen Marker, Pink	1
KN-297-LB-1	Oppen Marker, Light Blue	1
KN-297-V-1	Oppen Marker, Violet	1

ALZET® Osmotic Pumps

ALZET pumps are miniature delivery systems designed to provide constant, accurate administration of test agents. These self-powered pumps offer a convenient and efficient method for long-term dosing of mice and rats. Pumps are sold empty, and are easily filled with your test agent via syringe. Self-powered pumps are then implanted either subcutaneously or intraperitoneally. Twelve pump models offer a range of release rates and durations to meet your specific research needs. Continuous delivery of up to 4 weeks is feasible with a single pump, and even longer durations can be achieved through serial implantation of pumps.

Pumps sold in multiples of 10. Each package comes complete with one filling tube, 10 flow moderators and detailed instructions.

MODEL	DESCRIPTION	
AP-1003D	1µL/hr, 3 days, 100µL	online
AP-1004	0.11µL/hr, 28 days, 100µL	online
AP-1007D	0.5µL/hr, 7 days, 100µL	online
AP-1002	0.25µL/hr, 14 days, 100µL	online
AP-2001D	8µL/hr, 1 day, 200µL	online
AP-2001	1µL/hr, 7 days, 200µL	online
AP-2002	0.5µL/hr, 14 days, 200µL	online
AP-2004	0.25µL/hr, 28 days, 200µL	online
AP-2006	0.15µL/hr, 42 days, 200µL	online
AP-2ML1	10µL/hr, 7 days, 2ml	online
AP-2ML2	5µL/hr, 14 days, 2ml	online
AP-2ML4	2.5µL/hr, 28 days, 2ml	online

Filling Tubes

Filling Tubes supplied in multiples of 10.

MODEL	DESCRIPTION	
A-FT100	Filling tube for 100 microliter pumps	online
A-FT200	Filling tube for 200 microliter pumps	online
A-FT2	Filling tube for 2 milliliter pumps	online

For pricing visit braintreesci.com

Brain Infusion Kits

Many agents do not cross the blood-brain barrier sufficiently to evaluate their effects on the brain without administration directly into brain. Often local infusion directly into brain is only way to generate reliable data. For use with ALZET pumps for targeted delivery to the central nervous system.

▶ Infusion into cerebral ventricles exposes a wide variety of brain regions to infusate via cerebrospinal fluid which bathes brain
▶ Direct microperfusion of discrete brain structures results in localized distribution of infusate in target tissue

Includes materials for 10 brain infusions: 10 brain infusion cannulae, 10 vinyl catheter tubes, 40 depth-adjustment spacers, and instruction sheet.

MODEL	DESCRIPTION	
BIF KIT1	28g, 3-5mm L	online
BIF KIT2	28g, 3-mm L, low profile, wide pedestal	online
BIF KIT3	30g, 1-3 mm L, low profile, wide pedestal	online

Shop online at www.braintreesci.com

Intravenous Osmotic Pump Catheter

M-JVC-AP

R-JVC-AP

Braintree Scientific's Micro-Renathane® based catheter for the continuous, intravenous (via the jugular vein) administration of drug solutions delivered with the ALZET® Osmotic Pump. Catheter can be modified for infusion via other blood vessels (please inquire).

Supplied non-sterile

MODEL	DESCRIPTION
R-JVC-7710	Rat Intravenous Osmotic Pump Catheter
M-JVC-7700	Mouse Intravenous Osmotic Pump Catheter

BS-900 Programmable Peristaltic Pump

Have a need to accurately fill multiple bottles, vials or other containers with a liquid? The learn and repeat mode of the BS-900 Peristaltic Pump makes even the smallest of businesses highly productive right from day one. Pump can be integrated into existing production lines or simply stand alone.

BS-900 comes fully programmable and can be operated manually or with a PC through a RS-232 communication port at no extra cost.

Flow rates vary from a minimum of 0.5ml/hr to a maximum of 1250ml/min. The pump's specialty is its small scale production dispensing. It will fill numerous bottles, vials, etc. with fluids of all types. Equipped for mass production dispensing.

Easy-to-use keypad interface, space saving chassis: Foot print size of only 7.75" x 7".

Kit includes head, 4 ft. of tubing, nylon clamp ties and a vial of lubricant.
▶ Dispense and withdrawal pumping
▶ Dispense and withdrawal volumes separately accumulated
▶ Programmable dispense volumes
▶ Non-volatile memory of all operating parameters and pumping program
▶ Programmable phases allow complex pumping applications and interaction with external devices. RS-232 bi-directional control
▶ Built-in pump network driver. Pump network supports up to 100 pumps and other devices
▶ Two modes of RS-232 control: Basic and Safe. Safe mode provides communication error detection, loss of communication detection, and automatic transmitting of alarm conditions
▶ TTL I/O with software filtered control inputs to eliminate glitches and ringing on control inputs. Configurable TTL operational trigger
▶ Power Failure Mode: Restarts pumping program after a power interruption
▶ Audible alarm

MODEL	DESCRIPTION
BS-900-4C	Peristaltic Pump with 2 Roller Pumping Head, 1/4" tubing
BS-900-0G	Peristaltic Pump with 4 Roller Pumping Head, 1/16" tubing

BS-8000 and BS-9000 Programmable Syringe Pumps

Built for Automation

▶ Stand-alone or from a computer
▶ Infusion and withdrawal. Set a single pumping rate, dispensing volume, or program up to 41 pumping phases that change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer
▶ Create expandable and reconfigurable multi-syringe systems by attaching pumps to each other
▶ Accepts small syringes or large syringes, up to 60cc
▶ Dispense continuously at a fixed pumping rate from 6μL/hr to 1200ml/hr
▶ Change pumping rate and direction while pumping
▶ Operates stand-alone, from RS-232 computer port or TTL logic interface
▶ Total volume pumped separately accumulated for infusion and withdrawal

UL Listed
CE APPROVED

MODEL	DESCRIPTION
BS-8000	Holds 1 Syringe up to 60cc
BS-9002	Holds 2 Syringes up to 60cc
BS-9006	Holds 6 Syringes up to 50cc
BS-9008	Holds 8 Syringes up to 10cc
BS-9012	Holds 12 Syringes up to 3/5cc

BS-500 OEM Application Syringe Pump

▶ Does not have a built-in user interface
▶ Chassis mountable:
  9.5"L x 4.25"W x 4.125"H
  (23.5 x 10.8 x 10.5cm)
▶ Operates from 12V DC power source
▶ Holds one syringe up to 60cc
▶ Infusion rates from 0.73μL/hr (1cc syringe) to 2100ml/hr (60cc syringe)
▶ Download free pump terminal emulator
▶ Custom modifications to the mechanics and firmware are available
▶ Computer controllable: networkable up to 100 pumps

Stand-alone operation: pre-program pump with dispensing program, then operate pump from an attached foot switch, button, or I/O controller. Open chassis design easily mounts into your system.

Infuse and withdraw, set a single pumping rate and/or dispensing volume. Program up to 41 pumping phases that change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer. Dispensing accuracy of ±1%. Motor stall detection available in the BS-501 model. Typically used in high pressure applications where there is a risk of exceeding the maximum force specified.

OEM Starter Kit allows user to interactively control pump from a computer.

Optional foot switch allows user to start, stop, or trigger the next phase on syringe pump. Attach to a BS-500 to allow stand-alone operation. Utilizes TTL logic port on syringe pump.

Higher flow rates available.

MODEL	DESCRIPTION
BS-500	OEM Syringe Pump
BS-501	OEM Syringe Pump with Stahl Detection (includes an optical encoder that detects/stops motor during a stall)
OEM-STARTER	OEM Starter Kit includes power supply, pump-to-PC network cable and user manual
BS-ADPT-2	Foot Switch

BS-300 InfusionONE™ Syringe Pump

Just the features that you want, and none that you don't want to pay for

▶ "Infuses only!"
▶ Holds microliter up to 60ml
▶ Pump continuously until user stops pump
▶ Infusion rate can be changed while pumping
▶ Remembers previous settings on power up
▶ Power failure mode allows pump to continue pumping after a reset
▶ Syringe purge mode
▶ Displays total volume dispensed in ml or μL units
▶ Maximum pumping rate of 1500ml/hr with a 60ml syringe
▶ Precise reproducible flow rates
▶ Selectable infusion rate units: ml/hr, μL/hr, ml/min, μL/min

MODEL	DESCRIPTION
BS-300	InfusionONE™ Syringe Pump

Programmable Microfluidics Syringe Pump

▶ Smoothest microfluidic syringe pump on the market
  Holds 1 syringe up to 60ml
▶ Advance per step: 4.252232 nanometers
▶ Infusion rates from 0.008nl/hr (0.5ml syringe) to 2545μL/min (140ml syringe)
▶ Available in double syringe (BS-8004X) version
▶ Easy-to-use keypad interface
▶ Space saving chassis: foot print size of only 5.75" x 8.75"
▶ Includes all advanced functions/programming features of BS-8000 family
▶ Includes X upgrade smooth linear/gradient increasing and decreasing pumping feature

MODEL	DESCRIPTION
BS-8002X	Single Syringe Pump
BS-8004X	Dual Syringe Pump

Syringe Heater

Heating device for syringes that require temperature-controlled dispensing. Heats syringe to over 100°C. Temperature sensor in heating pad. Digitally set heater setpoint, setpoint is retained in memory. Controller will heat syringe and hold set temperature using an on/off or PID control algorithm. Multiple syringe heater pads can be attached to the control unit. Pump sold separately.

MODEL	DESCRIPTION
BS-SYRH	Syringe Heater Kit includes Control Unit, power cable and primary heater pad
BS-SYRH2	Pad2 Kit for attaching a second heating pad
BS-SYRH3	Pad3+ Kit for adding three or more pads
BS-SYRH-SM	Kit with ribbon heater pad for smaller syringes
BS-SYRH-SM-H2	Pad2 Kit for adding two pads for smaller syringes
BS-SYRH-SM-H3	Pad3+ Kit for adding three or more pads for smaller syringes

Temperature sensed in primary heating pad only

AutoMate In Vivo Manual Gravity Perfusion System

Take the guesswork out of your new animal fixation system

Providing an option for scientists who would rather do science than design a system and source parts. Let AutoMate take the guesswork out of your new animal fixation system. Steady gravity-fed delivery of buffer and fixative, results in complete perfusion. Easy to set up, use and clean. Complete system with everything down to the needles. Fits in standard hoods at a fraction of the cost of a peristaltic pump and more reliable. One or two users can perfuse two mice simultaneously with the Double In Vivo system.

► Four reservoirs and two stopcocks are mounted for two independent wash buffer and fixative deliveries on the same ringstands
► 2-way manual stopcock makes for easy one-handed operation to switch solutions
► Consistent results - steady gravity-fed delivery of buffer and fixative results in complete perfusion
► Easy to set up, use and clean - complete system with everything down to the needles. Fits in standard hoods
► Fraction of the cost of a peristaltic pump and more reliable

MODEL	DESCRIPTION
IV-140	InVivo Perfusion System 140ml - Mouse
IV-800	InVivo Perfusion System 800ml - Rat
IV-4140	Double InVivo Perfusion System 4x 140ml - Double Mouse
IV-4800	Double InVivo Perfusion System 4x 800ml - Double Rat

Noise and Vibration Monitoring

New! Sensory Sentinel™ Monitoring System

Continuous measurement and logging tool for temperature, humidity, light, noise, vibration, and staff activity in your animal housing and research space. The Guide for the Care and Use of Laboratory Animals recognizes that excessive temperature, humidity, light, noise, and vibration can be confounds to research and harmful to animal welfare (Chapter 3, pg. 43-50; Chapter 5, pg. 149-150). With Sensory Sentinel, these five variables and staff activity can be monitored and logged every second at either room or cage level. Combined with user friendly software, Sensory Sentinel allows users to easily understand if past and current environmental levels are concerning, receive alerts when thresholds are exceeded, generate reports, and access data remotely with the accompanying Station Viewer software.

Sensory Sentinel allows users to:
► Measure sounds and ultrasounds
► Detect subtle vibrations in any animal environment
► Easily track temperature, humidity, light levels, and staff activity
► Continuously record and archive data for each sensor every second
► Quickly apply species-specific settings
► Measure either the animals' macro or microenvironment
► Monitor/produce reports remotely with included Station Viewer software

System includes one year Sensory Sentinel software license*, Sensory Sentinel tablet, microphone, microphone calibrator, accelerometer, temperature and humidity sensors, light sensor, one year limited warranty, two remote training sessions: setup and follow-up

Software license must be renewed annually.

MODEL	DESCRIPTION
SENS-SENT-MS	Sensory Sentinel Monitoring System
SENS-SENT-XW	Armor Protection 2 Year Extended Warranty and 2 Year Extended Software License/User Support
SENT-SENT-XL	Sensory Sentinel 1 Year Extended Software License

Hum Bug Noise Eliminator

► Eliminates 50/60 Hz noise and harmonics without filtering
► Eliminates electrical interference
► No waveform distortion

Cancels electrical interference in real-time, avoiding traditional problems associated with notch filters. Hum Bug constructs a replica of noise present on input signal and continuously subtracts replica from the signal as it passes through the instrument including biological activity even when noise characteristics evolve over time.

Hum Bug is not a filter. Simply connect it between your preamplifier and any analysis equipment and it will automatically eliminate 50/60 Hz noise and harmonics with frequencies up to several kHz. Noise is eliminated without altering signal of interest even when frequencies within signal overlap with noise components. No settings or adjustments are required.

Eliminates 50/60 Hz noise from any analog signal and removes noise associated with inadequate grounding, ground loops and electrical pickup.

MODEL	DESCRIPTION
HUMBUG	Hum Bug Noise Eliminator

Shop online at www.braintreesci.com

Small Animal Anesthesia Systems that evolve with your needs

Safe, easy-to-use anesthesia systems for small animals

E-Z Anesthesia customizes systems to integrate seamlessly with your existing equipment. These systems can be customized to satisfy your current needs while providing the flexibility to expand and meet future requirements.

An innovative solution that offers the ultimate in user-friendly, simple operation with a level of precise automation that minimizes operator error. Each system incorporates a breathing valve that controls gas flow to the nosecone and protects both animals and technicians from overexposure to gas. Switching from working with mice to rats is as easy as changing a nosecone.

Most E-Z systems are expandable to accommodate up to four breathers. The system is adaptable to a wide range of procedures from Stereotaxic, MRI, X-Ray, PET, simply by interchanging a breather.

AD-5000 Digital Anesthesia System

Digital flow control and heating beds

This system takes the vaporizer to the next level, merging the best of both worlds with a very reliable, user-friendly, state-of-the-art system. Other systems that rely on a fully electronic vaporizer limit the user to a single output and require constant monitoring for optimal results. Digital Anesthesia System uses the always reliable TEC 3 vaporizer as the cornerstone and enhanced its features with a digital interface.

Digital Anesthesia System incorporates a vivid touch screen that allows operator to have a full range of features. Exclusive digital flow control gives user a precise range of 0.5 to 2.5 lpm flow rate per connection. Digital Anesthesia System is not limited to a single output – user can run an induction chamber with two additional breathing circuits simultaneously. Allows the user to choose any combination of outputs while our digital flow control automatically adjusts for correct flow rates. Induction chamber incorporates an automatic flush button to prevent undesired exposure when transferring animals. Induction chamber and breathing circuits include individual timers for accurate monitoring and prevention of over exposure to the patients.

System includes all new digital warming beds to help maintain the patient's body temperature during surgical procedures. Patented warming system allows user to heat the induction chamber and breathing circuits. Warming beds range from 95°-105°F or 35°-40°C with easy adjustability to maintain desired temperature. Each warming circuit displays the set temperature and can be independently adjusted. When all procedures are complete, simply press "Done" button to systematically shut down in the proper sequence to ensure a longer life for the system.

HB-103-F

HB-1000-F

Warming Beds to Suit Your Needs

Choose from flat or V-shape warming beds (XL flat beds available upon request). Constructed of heavy gauge stainless steel. Heat evenly distributes throughout the bed surface. Beds range from 95°-105°F or 35°-40°C.

Features:
► Complete turnkey system
► Simple to set up and use
► Multiple languages
► Digitally control 3 warming beds
► Individual temperature control with Fahrenheit or Celsius option
► Temperature safety monitoring
► High quality brass vaporizer
► Digitally control flow rates
► Easy flow rate adjustments
► Independent timers for each breathing circuit
► Chamber flush button
► Gas tank monitoring option
► Remote access available
► "Done" button (systematic shutdown)
► 0.5 - 2.5 LPM flow range

System includes:
► Digital anesthesia vaporizer machine
► Oxygen or air regulator
► 1 EZ-178 induction chamber
► 1 HB-163 chamber warmer
► 2 surgery beds with breathers - flat or V-shaped
► 2 mouse and 2 rat nosecones with plugs
► 1 case of refresh charcoal filters

MODEL	DESCRIPTION
AD-5000V	Digital Anesthesia System with V-Shaped Bed
AD-5000F	Digital Anesthesia Systen with Flat Bed
Optional Accessories	
HB-1000-F	Heating Bed, Flat (10" x 4" x 1")
HB-1000-V	Heating Bed, V-shaped (10" x 4" x 1")
HB-103-F	Heating Bed, Flat, with EZ-103-H Microflex Breather
HB-103-V	Heating Bed, V-shaped with EZ-103-H Microflex Breather
HB-163	Heating Bed, (11" x 6" x 1")
HB-103-H	Microflex Breather for Heating Bed

All prices subject to change without notice.

Shop online at www.braintreesci.com

Single Animal System

Single Animal System is designed as an economical alternative when a simple, entry-level system is sufficient.

Accommodates animals ranging in size from neonate mice to rabbits. Designed for treatment of one animal at a time. Y-splitter valve directs anesthetic output to either induction chamber or breathing circuit. Oxygen flush purges induction chamber before removing animal. Carry handle facilitates safe, easy transport of unit.

System includes:
► EZ-108SA Single animal vaporizer unit
► EZ-103A Microflex mouse/rat non-rebreathing device plus 2 plastic surgery beds
► EZ-178 mouse/rat Sure-Seal induction chamber
► EZ-258 charcoal filters (8)
► O$_2$ Regulator - specify which oxygen regulator is required: EZ-320 industrial CGA540 or EZ-330 medical yoke fitting
► Mouse/rat nosecones, nosecone plugs and all connecting tubes

Single Animal System with heat includes everything above plus:
► EZ-1000 E-Z heat controller
► HB-1000V heated bed, V-shaped
► EZ-163 chamber warmer

MODEL	DESCRIPTION
EZ-SA800	Single Animal System
EZ-SA800-H	Single Animal System with heat

Classic Small Animal System

Classic starter system includes core EZ Anesthesia components without heating system.

Featuring the Microflex Breather, a low profile breather is suitable for work under microscopes and other applications where a smaller breather is required. Also available in plastic for MRI use.

System includes:
► EZ-150C Classic vaporizer unit
► (2) EZ-103A Microflex mouse/rat non-rebreathing devices plus (2) plastic surgery beds per breather
► EZ-178 Mouse/Rat Sure-Seal Induction Chamber
► EZ-258 charcoal filters (8)
► O$_2$ regulator - specify which oxygen regulator is required: EZ-320 industrial CGA540 or EZ-330 medical yoke fitting
► Mouse/rat nosecones, nosecone plugs and all connecting tubes

Classic Small Animal System with heat includes above plus:
► EZ-1000 E-Z heat controller
► (2) HB-1000V heated bed, V-shaped
► EZ-163 chamber warmer

MODEL	DESCRIPTION
EZ-7000	Small Animal Anesthesia System no heat
EZ-7000-H	Small Animal Anesthesia System with heat

Multi-Animal System

Featuring the Multi-Animal Breather for use with x-ray, MRI and PET imaging equipment

Breather incorporates five ports that can accommodate five mice or three rats simultaneously from a single gas line. Custom breathers can also be made to integrate with existing equipment. Breather is supplied with five mouse nosecones and three rat nosecones. Tight fitting nosecones eliminate gas leakage and protect personnel from gas exposure.

System includes:
► EZ-150C Classic vaporizer unit
► EZ-109 Multi-animal non-rebreathing unit
► EZ-178 Mouse/rat sure-seal induction chamber
► EZ-258 Charcoal filters (8)
► O$_2$ Regulator - specify which oxygen regulator is required: EZ-320 industrial CGA540 or EZ-330 medical yoke fitting
► Mouse/rat nosecones, nosecone plugs and all connecting tubes

Multi-Animal System with heat includes everything above plus:
► EZ-1000 E-Z heat controller
► (3) EZ-163 heated bed, XL size

MODEL	DESCRIPTION
EZ-7109	Multi- Animal Anesthesia System no heat
EZ-7109-H	Multi-Animal Anesthesia System with heat

EZ-AF9000 Auto Flow System

Precise, consistent, preset flow rate from each outlet, no variables. Offers highly efficient, precise gas flow that is easy to use.

► Fixed flow rates are set specifically for mice and rats
► Each output is individually controlled with simple on/off switch
► 5 outputs supply anesthesia to induction chamber and up to 4 breathers
► Preset flow rates eliminate need for flowmeters and manual adjustments
► Protocols are easily followed without calculations
► Flow rate is not impacted by the accessories connected
► Precise, low flow gas saves money and protects personnel
► Pushbutton oxygen flush purges induction chamber before removing animals

System includes:
► EZ-190F Auto-flow vaporizer unit
► (2) EZ-103A Microflex mouse/rat non-rebreathing devices plus (2) plastic surgery beds per breather
► EZ-178 Mouse/Rat sure-seal induction chamber
► EZ-258 Charcoal filters (8)
► O$_2$ Regulator - specify which oxygen regulator is required: EZ-320 industrial CGA540 or EZ-330 medical yoke fitting
► Mouse/Rat nosecones, Nosecone plugs and all connecting tubes.

Auto Flow System with heat includes everything above plus:
► EZ-1000 E-Z heat controller
► (2) HB-1000V heated bed, V-shaped
► EZ-163 chamber warmer

MODEL	DESCRIPTION
EZ-AF9000	Auto Flow System
EZ-AF9000-H	Auto Flow System with heat

Xenotec Isoflurane Small Animal Anesthesia System

Xenotec Isoflurane Anesthesia System (XIAS) is a complete single subject gas delivery unit designed for rodent-sized animals in the lab or clinic. This system offers a turnkey solution that is easy to set up, use, and maintain, creating less stress on the patient and the anesthetist. A high-quality TEC-3 vaporizer is surrounded by smartly chosen components, built to give years of reliable service.

System includes vaporizer and console, rodent induction chamber kit, charcoal filter, regulator/hose and medium facemask kit.
Other size mask kits sold separately.

MODEL	DESCRIPTION
XIAS-01	Xenotec Isoflurane Small Animal Anesthesia System
XIAS-VP	TEC-3 Isoflurane Vaporizer & Console
XIAS-RIC	Xenotec Rodent Induction Chamber
XIAS-CGA870	Xenotec CGA870 Regulator with 6' Hose Kit
XENO-M	Xenotec Medium Facemask Kit with ports, tubing and adapters

Single Animal Vaporizer Unit

An economical choice for single animal treatment.

MODEL	DESCRIPTION
EZ-108SA	Single Animal Vaporizer Unit

Classic Vaporizer Unit

Unit incorporates a manual five-output manifold that includes a new flowmeter configuration that improves upon the original E-Z Anesthesia design.

MODEL	DESCRIPTION
EZ-150C	Classic Vaporizer Unit

Auto Flow Vaporizer Unit

Featuring an automatic five-output manifold that does not require flowmeters.

MODEL	DESCRIPTION
EZ-190AF	Auto Flow Vaporizer Unit0

Vaporizers

Calibrated 0.25 to 5% using a laser refractometer for the specified anesthetic drug. Complete with safety lock to help prevent accidental turn-on of dial. Fluctuations in temperature, flow rate and duration of use is automatically compensated for during use. When used with I.P.P.V. the variation in output is negligible.

Other drug type vaporizers available for Halothane, Sevoflurane, Enflurane, call for pricing. Drug not included.

MODEL	DESCRIPTION
VP-I	Cage Mounting/Well Fill, Isoflurane

Microflex Breather

Accommodates neonates up to animals weighing 500 grams. Low profile - suitable for use under a microscope. Vertical and angular adjustments allow precise positioning of animal. Tight-fitting nosecone eliminates gas leakage and protects personnel from gas exposure.

Includes mouse and rat nosecones and plugs, and two plastic surgery beds.

MODEL	DESCRIPTION
EZ-103A	Microflex Breather

Coaxial Breathing Apparatus

COAX-4 (made from durable Delrin) is a co-axial anesthesia breathing apparatus for maintaining the surgical plane that can be used for mouse to rat sized animals. Fresh anesthetic gas enters side barbed fitting set with 1/16" tubing that limits dead space. Waste Anesthetic Gas (WAG) is scavenged by end barbed fitting to the WAG site. Masks (two included) utilize a replaceable and transparent silicone diaphragm to seal nose. Accepts standard 1/4" tubing. Ten feet of silicone tubing is included.

MODEL	DESCRIPTION
COAX-4M	COAX-4 with 2 mouse sized masks
COAX-4R	COAX-4 with 2 rat sized masks
COAX-4MR	COAX-4 with 2 mouse and 2 rat sized masks
VM-33-S	Replacement diaphragms (10/pk)
MASK-MOUS	Mouse sized mask only
MASK-RAT	Rat sized mask only

Rodent Anesthesia Face Mask Kit

Easy to customize, anatomically correct fit for mice and rats of all sizes. Zero leakage or dead space. Access eyes and head of rodent while sealing nose and mouth. Quick change between masks. Reinforced stress points for increased durability with swiveling ports for greater flexibility in positions. Provides stability of animal for examinations and surgery. Waste-line connects to gravity or vacuum filters. Adaptable to stereotaxic systems. Pre-heat air with heating pad.

► Gas flow range of 200 up to 1000cc/min
► Kit includes two each: 6' tubing, 1/4" and 3/8" adapters
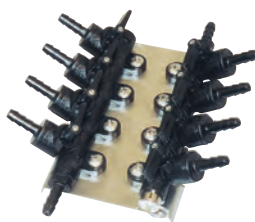
MODEL	DESCRIPTION
XENO-CO-KIT	Complete Rodent Face Mask Kit includes small, medium, large and extra large face masks
XENO-MI-KIT	Mouse Face Mask Kit includes small and medium face masks
XENO-LR-KIT	Rat Face Mask Kit includes large and extra large face masks

Individual Face Mask Kit

XENO-S	Small Face Mask Kit - For mouse less than 2 months old
	Weight: 1.5g to 15g
	Mask measures: 8mm aperture x 25mm overall length
XENO-M	Medium Face Mask Kit - Mouse 2 months and older/small rat
	Weight: Mouse - 15g to 26g, Rat - 3g to 20g
	Mask measures: 10mm aperture x 30mm overall length
XENO-L	Large Face Mask Kit
	Weight: Mouse - 26g and greater, Rat - 20g to 250g
	Mask measures: 13mm aperture x 35mm overall length
XENO-XL	Extra Large Face Mask Kit
	Weight: Rat - 250g to 750g
	Mask measures: 18mm aperture x 42mm overall length

Manifold

Manifold supports multiple procedures while utilizing only one vaporizer. While offering individual shut-offs, manifold provides intake of new gas to designated locations while opposite side provides output for used gases to a scavenger unit. Accepts 1/4"-3/8" tubing.

MODEL	DESCRIPTION
MAN-2	2 Station Manifold
MAN-3	3 Station Manifold
MAN-4	4 Station Manifold

One Directional Manifold

Works like traditional two directional manifold but allows placement versatility. Can be used to deliver fresh anesthetic gases or collect waste anesthetic gases (WAG). Accepts 1/4"-3/8" tubing. 7' clear tubing included.
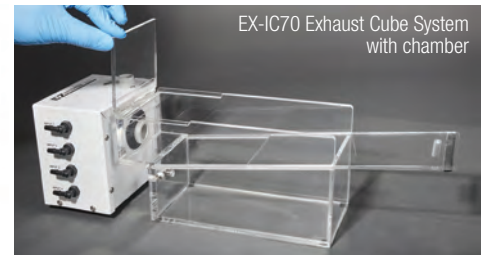
MODEL	DESCRIPTION
M1-2	One directional manifold for 2 anesthetic devices
M1-3	One directional manifold for 3 anesthetic devices
M1-4	One directional manifold for 4 anesthetic devices
M1-P	One directional manifold plate with feet only

All prices subject to change without notice.

EX-IC Exhaust Cube

EX-IC70 Exhaust Cube System with chamber

EX-IC

EX-IC Exhaust Cube is the latest active waste gas solution from E-Z Anesthesia. EX-IC features an internal blower that captures waste gas from the vented chamber and up to four breathing devices. Calibrated specifically for small animal anesthesia applications, EX-IC will safety capture waste gas without pulling fresh gas away from animal. Device has a 22mm exhaust port that can be used with a charcoal filter or routed to a fume hood.

MODEL	DESCRIPTION
EX-IC70	Exhaust Cube System: Cube and Chamber
EX-IC70-H	Exhaust Cube System, E-Z Heat Compatible:
	Cube, Chamber, Adaptor Plate, Charcoal Filter and Tubing
EX-IC	Exhaust Cube
EZ-170	Vented Chamber

CO$_2$ Chamber

The cleanest CO$_2$ induction chamber on the market!

► For mice and rats
► Simple, quick and easy to use!
► Small foot print – 9" diameter, easy to keep on bench
► Quick connect with valve – closes when disconnected, keeps CO$_2$ in tube and chamber
► Door allows user to place animals in chamber without losing CO$_2$. Provides for ultra quick animal induction
► 7' tube – easily connects to CO$_2$ source
► Disposable bag liner – animal feces and urine remain in bag with animal Chamber is always clean
► Delivery tube within chamber – fills chamber from bottom, decrease induction time, "more humane"
► Clear acrylic top – easy to see animals in chamber
► Solid sides – prevents viewing of animals during the process
► Includes see thru acrylic lid with door and quick connect with valve, 7' tubing, 50 disposable insert bags

MODEL	DESCRIPTION
COIC-1	CO$_2$ Chamber
COIC-BL	Disposable Liner Bags (50 bags/pk)

Shop online at www.braintreesci.com

Anesthesia Gas Filter

An effective device for the removal of excess halogenated anesthetic gases (after patient inhalation) in the operating room. Removes no less than 50 grams of anesthetic gas.

► 12-15 hour use life
► Made in the USA

MODEL	DESCRIPTION
BSCI-AIR-EA	Anesthesia Gas Filter
BSCI-AIR-CS	Anesthesia Fas Filter - case of 8
F-AIR-KIT	F/Air Kit - Includes holder, scavenger tube and one canister

ReFresh™ Anesthetic Waste Gas Canister

Refresh Canisters last twice as long, capture twice the amount of Isoflurane with less waste and increased safety. With a decrease in canister changeovers there is potential for cost savings up to 40%.

MODEL	DESCRIPTION
EZ-258	ReFresh™ Gas Canister - case of 8

Red Gas Anesthetizing Box

Laboratory rodents are largely color blind, so a red box merely acts as a non-threatening shelter and allows for observation while anesthetizing.

► For use with rats and mice
► Sliding, machine-tooled top allows for easy access
► Removable interior, perforated floor permits rodent to be elevated off the floor for a cleaner environment
► Made of durable plastic, this box should last for years (not for use with liquid organic solvents)

MODEL	DESCRIPTION
AB-RED-1	Red Gas Anesthetizing Box (25.4cm L x 10.16cm W x 10.16cm H)
AB-RED-2	Large Red Box 10"L x 8"W x 8"H (25.4cm L x 20.3cm W x 20.3cm H)

Gas Anesthetizing Box

For use with rats and mice – 0.25" thick transparent plastic anesthetizing box allows for constant observation while anesthetizing and helps protect against accidental overdosing.

Easy to move machine tooled sliding top. Made of durable plastic, this box should last for year (not for use with liquid organic solvents).
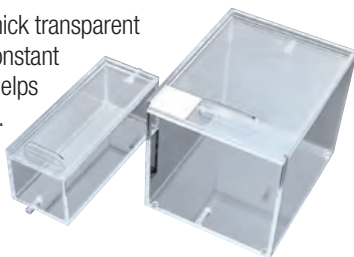
MODEL	DESCRIPTION
AB-1	Small Box 10"L x 4"W x 4"H (25.4cm L x 10.16cm W x 10.16cm H)
AB-2	Large Box 10"L x 8"W x 8"H (25.4cm L x 20.3cm W x 20.3cm H)
AB-4	Extra Small Box 4"L x 4"W x 4"H (10.16cm L x 10.16cm W x 10.16cm H)

Custom boxes are available, please call for a quote

Sure-Seal Induction Chamber

For use when home cage is unavailable. Chamber is constructed of heavy-duty, clear acrylic plastic with a non-skid bottom and simple locking, snap latch top.

MODEL	DESCRIPTION	DIMENSIONS
EZ-177	Mouse Chamber	4"L x 4"W x 4"H
EZ-178	Mouse/Rat Chamber	9"L x 4"W x 4"H
EZ-1785	Large Mouse/Rat Chamber	11.25"L x 7"W x 6"H
EZ-179	Guinea Pig/Rabbit Chamber	18"L x 12"W x 12"H

SMARTBOX® Lab Control Unit

Compliant with AVMA Guidelines
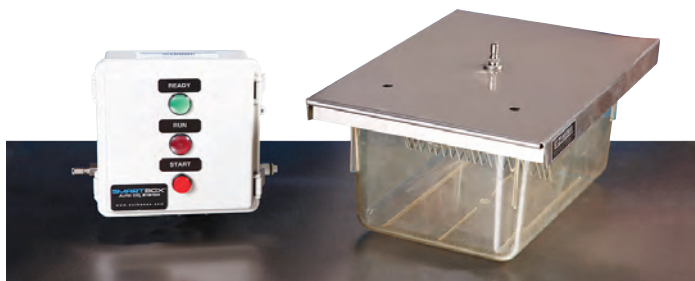
Controller automates on/off gas flow at the push of a button, delivering CO_2 to individual cage or Euthanex lid. Designed for small scale use. Operates at a fixed flow rate based on the external CO_2 source. Lids and chambers sold separately.

► Treats animals at individual cage level
► Designed for investigators that need to retrieve animals quickly
► Utilizes full range of Euthanex cage lids or existing induction chamber
► Minimizes operator error and excessive gas use
► Automatic shut-off saves gas and protects personnel
► Easily attaches to wall

MODEL	DESCRIPTION
EA-31000	1 Programmable Timing Preset And 1 Gas Output
EA-32000	2 Programmable timing presets and 1 Gas Output
EA-34000	4 Programmable Timing Presets and 4 Gas Outputs includes: four EA-1130 lab unit hoses
EA-32002C	2 Programmable Timing Presets and Individual Start Times, 2 Gas Outputs, includes: two EA-1130 lab unit hoses
EA-34004C	4 Programmable Timing Presets and Individual Start Times includes: four EA-1130 lab unit hoses

Flow Restrictor

When used with a Euthanex lid, avoids need to adjust flow rate due to a change in cage number. For use with any size Euthanex lid between lid and lid stem.
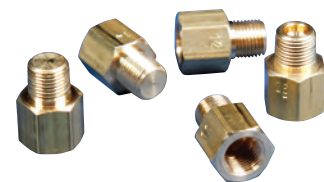
MODEL	DESCRIPTION
FR-SA	Flow Restrictor

Shop online at www.braintreesci.com

CO₂ Flowmeter

Compliance made easy

- ► Calibrated to accurately deliver CO_2 to chamber
- ► Easy to connect to any chamber
- ► Small profile
- ► Three-way ball valve offers quick chamber fill when needed
- ► Easy to set CO_2 flowrate
- ► Wall mount option

Revised 2013 AVMA Guidelines for CO₂ Euthanasia

"General recommendations–carbon dioxide is acceptable…using a gradual fill method is less likely to cause pain due to nociceptor activation by carbonic acid prior to onset of unconsciousness; a displacement rate up to 70% of the chamber volume/min is recommended. The practice of immersion, where conscious animals are placed directly into a container prefilled with 100% CO_2, is unacceptable."

Which CO₂ flowmeter to use?

Calculate the total volume of your chamber in cubic inches (in^3). Your chamber volume should fall between the min and max of the selected CO_2 flowmeter for the selected chamber displacement rate.

CO₂ FLOWMETER MODEL/RANGE	CHAMBER VOLUME (in³)	CHAMBER DISPLACEMENT RATE		
		30%	50%	70%
XL900	max	5,040	3,051	2,179
3 - 25 l/min	min	612	366	261
LC500	max	2,012	1,221	872
1 - 10 l/min	min	210	122	87
SC100	max	1,001	610	436
0.5 - 5 l/min	min	96	61	44

Example Calculations for a chamber displacement rate of 70%

Large Rat Cage
19" x 10" x 8" = 1520 in^3
1520 in^3 x 0.70 = 1,064 in^3 (flow rate wanted 1,064 in^3/min)
1,064 in^3/min divided by 61 = 17.4 l/min AIMS CO_2 flowmeter setting.

COIC CO₂ Chamber (cylinder)
Л x Radius^2 x Height
3.14 x 4"^{2} x 7" = 352 in^3
352 in^3 x 0.70 = 246 in^3 (flow rate wanted 246 in^3/min)
246 in^3/min divided by 61 = 4.0 l/min CO_2 flowmeter setting

MODEL	DESCRIPTION
CO2-SC100	Flow Rates 0.5 - 5 l/min
CO2-LC500	Flow Rates 1 - 10 l/min
CO2-XL900	Flow Rates 3 - 25 l/min
CO2-WMB2	Wall Mount Brackets (only)
CO2-FMT2	10 ft. Tubing only, 5/16" id x 1/16" od

Quietek™

Automated euthanization device ensures AVMA compliance

Cage and cover sold separately

Cage sold separately

Ensure that laboratory rodents are humanely euthanized without disrupting laboratory workflow. Quietek is an affordable, fully-automated device specifically designed to comply with Revised 2013 AVMA guidelines

- ► **Adheres to stringent new guidelines** - The Revised 2013 AVMA Guidelines for Euthanasia of Animals state that flow rate for lab rodent CO_2 euthanasia systems should displace up to 70% of chamber or cage volume/minute. NIH requires all new research plans and renewals be evaluated using these guidelines.
- ► **Takes the guesswork out of euthanasia** - Designed by animal research facility managers and scientists, easy to use, accurate system ensures that users correctly administer CO_2 by automatically calculating gas delivery for cage volume and desired fill rate. CO_2 conditions will be consistent every time, thereby eliminating a source of variation.
- ► **Fail-safe and easy to operate** - Simply push start. There are no valves to turn (or accidentally leave open) between runs and no regulators to adjust. Quietek also features a key lock that prevents unwanted or accidental tampering with settings.
- ► **Reduces impact on lab** - Quietek seamlessly integrates into current protocols. Use it with most common chambers or cages. Lids are available in several sizes.
- ► **Works on wide range of chamber sizes** - models are available for chamber sizes as small as 0.5L to as large as 200L providing flow rates from 0.05 LPM to 60 LPM.

Quietek Controller can also be used with other manufacturer's lids.

MODEL	DESCRIPTION
QTK-1	Quietek 1 Carbon Dioxide delivery system
	Single port system will deliver CO_2 to a 3-30L rodent cage
QTK-2	Quietek 2 Carbon Dioxide delivery system
	Dual port system will deliver CO_2 to 2 separate 3-30L rodent cages
QT6-B	Quietek Tubing 6 feet of tubing to connect Quietek to
	a cage lid. Comes with a quick connect fitting. Blue hose

Quietek™ Cage Lids
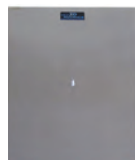
Cage lids for Quietek controller. Lids fit almost all commercially available cages.

MODEL	DESCRIPTION
QCVR-13x9	Small rodent cage lid - 13" x 9"
QCVR-16x11	Medium rodent cage lid - 16" x 11"
QCVR-18x14	Medium/wide rodent cage lid - 18" x 14"
QCVR-21x11	Medium/large rodent cage lid - 21" x 11"
QCVR-24X17	Large rodent cage lid - 24" x 17"

SMARTBOX® Prodigy Plus Touch Screen Controller

Allows administrators to pre-program an unlimited number of cage sizes with designated flow rates. After initial cage setup, user selects cage icon and hits start. Prodigy uses cage parameters and flow rates to automatically run cycle without further user input. Each user can only see cages authorized by administrator. Treat up to 3 rat cages at one time.
**Compliant with AVMA Guidelines**

► Touch screen control displays flow, cage type, stage, and times
► Automatically calculates your cage type/total volume
► Automatically controls flow rates
► Administrator can set cage flow rate and times for each cage type
► Treats animals at individual cage level
► Euthanize up to 3 cages at a time
► Secondary charges and dwells for neonates
► Unlimited amount of users with password protection
► Allows user-level permissions
► Designed for investigators that need to retrieve animals quickly
► Includes magnetic feet for easy mounting to metal safety cabinets

MODEL	DESCRIPTION
EA-36000P	SMARTBOX Prodigy Plus Touch Screen Controller

Euthanex Lids
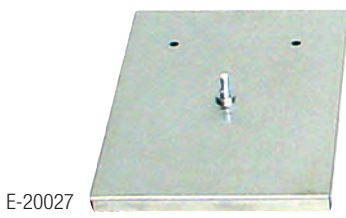
E-20029   E-20027

Euthanex Lid system has become an industry standard. Simply by removing the water bottle from the wire cage cover and placing Euthanex Lid over the host cage, user is ready to perform euthanasia. Eliminates the need to transfer animals.

Lids are available in a variety of sizes to accommodate virtually all-plastic cage sizes designed for small lab animals. Heavy-duty stainless steel lids have a stem for easy connections to the regulator hose. A foam lid gasket assures a good seal. Multiple lids may be used to treat several cages at once.

MODEL	DESCRIPTION
E-20027	Super Small Lid (13" x 9") - Stainless Steel
E-20028	Small Lid (16" x 10") - Stainless Steel
E-20030	Square Lid (13" x 13") - Stainless Steel
E-20032	Medium Lid (20.5" x 11") - Stainless Steel
E-20034	Large Lid (23" x 16.5") -Stainless Steel
E-20029	Lid Storage Bracket - Wall mounted bracket holds up to four lids
E-20039	Opti Mouse Lid
EP-1130	6' Hose with quick disconnect

Shop online at www.braintreesci.com

High Flow Carbon Dioxide Regulator

Allows inlet pressure control of CO_2 for any of the Quietek™ models. Inlet adapts to a standard USA CO_2 cylinder and 1/4" barb outlet is ideal for connection to Quietek. Automatic blow-off releases line pressure if in excess of 50 PSI to prevent damage to Quietek.

MODEL	DESCRIPTION
EP-QTK-REG	Low Pressure Regulator with Flowmeter

Oxygen Regulators

EZ-320   EZ-330

MODEL	DESCRIPTION
EZ-320	Oxygen Regulator with H-Cylinder fitting (preset at 50 psi)
EZ-330	Oxygen Regulator with E-Cylinder fitting (preset at 50 psi)

Tamper-Proof Dual Flow Regulator

Compliant with AVMA Guidelines

► Factory preset to your specific cage size
► Easy operation with simple on/off valve
► 0.5-12 LPM
► Visual indicator ensures correct gas flow
► Simultaneously operate two different size cages
► Connects directly to CO_2 cylinder with CGA-320 fitting
► Includes two 6' hoses with quick disconnect fitting

MODEL	DESCRIPTION
EP-3300	Tamper-Proof Dual Flow Regulator

Low Pressure Regulator with Flowmeter

0.5-12 LPM

AVMA compliant. Precise control of CO_2 flow. Calibrated specifically for CO_2 gas. 0.5-12 LPM range. Connects directly to CO_2 cylinder with CGA-320 fitting. Optional CGA-970 yoke fitting available. Includes a six foot hose with quick-disconnect fitting that attaches to stainless steel lids.

MODEL	DESCRIPTION
EP-1305	Low Pressure Regulator with Flowmeter

Adjustable Flow Meter

Compliant with AVMA Guidelines

► 0.5-12 LPM
► Manually adjust flow rate for cage size
► Connects directly to house gas source with standard CO_2 DISS 1080 female connection (other connections available upon request)
► Includes 6' hose with quick disconnect fitting

MODEL	DESCRIPTION
EP-512A1-DS	EP-5000 Adjustable Flow Meter with DISS
EP-512A1-BR	EP-5000-BR Adjustable Flow Meter with Bracket bolts directly to wall

Tamper-Proof CO2 Flow Meter

Compliant with AVMA Guidelines

► Factory preset to your specifications
► Easy operation with simple on/off valve
► 0.5-12 LPM
► Visual indicator ensures correct gas flow
► Tamper-proof cap
► Includes 6' hose with quick disconnect fitting
► EP-6000-BR Includes bracket for ease of installation, bolts directly to wall

MODEL	DESCRIPTION
EP-512T1-DS	Tamper-Proof Flow Meter with Diss
EP-512T1-BR	Tamper-Proof Flow Meter with wall bracket

Tamper-Proof Dual CO2 Flow Meter

Compliant with AVMA Guidelines

► Factory preset to your specific cage size
► Easy operation with simple on/off valve
► 0.5-12 LPM
► Visual indicator ensures correct gas flow
► Tamper-proof flow adjustment
► Includes 6' hose with quick disconnect fitting
► Simultaneously operate two different size cages
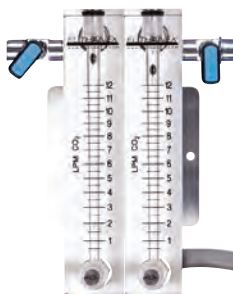
MODEL	DESCRIPTION
EP-3300-712	Tamper-Proof Dual Flow Meter

Preset Regulator

0-50 PSI Output

Connects directly to the CO_2 cylinder with CGA-320 fitting. For use with equipment that requires a specific incoming pressure. Preset at factory.

Includes: 9 foot hose with quick disconnect fitting.

MODEL	DESCRIPTION
EP-1150-P	Preset Regulator

Pureline® OC4000

This revolutionary Pureline® OC4000 O_2 concentrator provides on-demand oxygen to any existing anesthesia system. While similar machines have been in use in Europe for years, Scivena Scientific has perfected the technology, added safety features, and now is making this money-saving equipment available in the USA. The Pureline® OC4000 O_2 Concentrator is FDA approved, UL tested, and backed by a three year warranty.

► Ready for use with existing anesthesia equipment
► Extracts FDA-approved USP 93% pure O_2 from the air and delivers on demand-up to 5 LPM
► Uses industry standard DISS male thread connection
► Includes 10' of high pressure O_2 hose with female DISS end fittings
► FDA approved, UL tested
► Oxygen purity and flow safety alarms
► Quiet 40-dBA operation
► Made in USA, state-of-the-art manufacturing with ISO quality and TUV SUV safety certifications

Specifications:

Dimensions: 14" x 9" x 23"
Electrical Power Supply: Rating: 115/230V 60Hz
Average Power: 330W(avg)
Protection Class: Class II
Mains Protection: 5A

Coarse cabinet filter should be cleaned as needed in your environment. (Part number OC4000-1)

Change fine intake filters during yearly anesthesia service call or every two years. (Part number OC4000-2)

MODEL	DESCRIPTION
OC4000	Pureline OC4000
OC4000-1	Coarse Cabinet Filter
OC4000-2	Fine Intake Filter

EZ Oxygen Concentrator

Eliminates the need for oxygen tanks or an in-house oxygen source.

► Extracts nitrogen from room air, outputs oxygen at 90% minimum purity
► Saves money in oxygen costs
► Eliminates labor costs and inconvenience of tank changes
► Quiet operation at 49-dBA
► Easy portability with rollerbase design
► Maximum output flow rate of up to 10LPM and fixed pressure of 20psi
► Weight is manageable at 54 lbs
► Able to supply oxygen to multiple systems simultaneously
► Well-suited for use in barrier facilities

MODEL	DESCRIPTION
EZO2-20	Oxygen Concentrator

Pureline® OC6000 Oxygen Concentrator with E-tank Back-Up

Works with any existing anesthesia system!

Provides on-demand oxygen to any existing anesthesia system. Built in E-tank manifold allows mobile use of the machine without power and protects your subject in case of power failure. FDA approved, UL tested and includes three year warranty.

► Ready for use with existing anesthesia equipment
► Complete oxygen concentrator, frame and valve assembly
► Extracts medical grade oxygen (USP 93%) from the air and delivers on demand-up to 5 LPM
► Uses industry standard DISS male thread connection
► Safety back-up oxygen supply (standard E tank) with fully integrated O_2 flush with industry standard 30 LPM maximum flow
► Ability to use oxygen flush with simple built in switch
► Oxygen purity and flow safety alarms
► Quiet 40-dBA operation
► Made in USA with ISO quality and TUV SUV safety certifications

Specifications:
Footprint: 18" x 18"
Shipping Box Dimensions: Concentrator - 19" x 14" x 27"
Frame - 36" x 23" x 27"
Shipping Weights: Concentrator - 38lbs.
Frame - 55lbs.

MODEL	DESCRIPTION
OC6000	Pureline OC6000

Pureline® OC8200 Oxygen Concentrator

Oxygen is on demand – never run out!

Designed specifically for use with veterinary anesthesia machines and oxygen therapy.

Built-in E-tank manifold allows mobile use. It also protects patients in case of a power failure.

► Delivers USP 93% oxygen up to 8 LPM
► Connects with industry standard oxygen DISS fittings
► Safety backup oxygen supply
► Energy efficient, made in USA
► Built specifically for anesthesia machine use
► Oxygen purity safety alarm
► Virtually maintenance free
► Quiet 53dBA operation
► Includes one high pressure "E" tank for backup and oxygen flush (back up e-tank is not filled by machine)

MODEL	DESCRIPTION
OC8200	Pureline OC8200

Anesthesia Pole Stand

► For portable transport of E-Z Anesthesia systems with a minimal footprint.
► Accommodates each of our three New Generation E-Z Anesthesia systems
► Convenient, slide-on mounting
► Swivel top allows precise positioning
► Accommodates two E-tanks
► Stable five-wheel base
► Optional Mayo Tray for surgical tools available – call for pricing

MODEL	DESCRIPTION
E-28000	Anesthesia Pole Stand

Stainless Steel Mobile Workstation

E-25000
(Components shown sold separately)

Mobile workstations constructed of heavy-duty stainless steel with locking casters, can easily move to multiple locations.

Work surface of 3.5' x 2' Open side shelves accommodate up to 2 CO_2 tanks and 2 O_2 tanks. Below work surface is an open shelf and a 2-door locking cabinet. System can be conveniently set up for maximum flexibility and mobility.

Small Mobile Workstation integrates all E-Z anesthesia components into one convenient mobile workstation. Half the size of the EZ-25000 constructed of the same materials. The top work surface measures 22" x 21" and comes with a locking cabinet and interior shelves.

E-27000
(Components shown sold separately)

MODEL	DESCRIPTION
E-25000	Mobile Workstation
E-27000	Small Mobile Workstation

All prices subject to change without notice.

Nemi Guillotine

► Easy blade replacement
► Mounting plates for all models (optional)
► Manufactured using only the finest materials
► Built to stay in your lab
► Extremely cost effective

Nemi Guillotine Maintenance Kit:
Includes all the tools needed to service your guillotine; wrenches screwdrivers, sharpening stone, sharpening oil, lubricating oil and spare hardware all housed in a tool box along with instructions.

MODEL	DESCRIPTION
NS-801	Nemi Guillotine, Mouse, 1.5" opening along side
NS-802	Nemi Guillotine, Rodent, 2" opening along each side
NS-803	Nemi Guillotine, Rodent, 3" opening along side
NS-801-RB	801 Replacement Blades
NS-802-RB	802 Replacement Blades
NS-803-RB	803 Replacement Blades
NS-80-KIT	Nemi Guillotine Maintenance Kit
NS-80-402	Nemi Sharpening Kit

DecapiCones®

DC-200

MDC-200

Economical mouse and rodent restrainer

Make injections and decapitation quicker and easier with Braintree's DecapiCones®. Tapered plastic film tubes provide quick and easy restraint of rats, mice and other small animals. I.P. injections can be made directly through the film! DecapiCones® restrain post-decapitation kicking and prevent personal contact with feces or urine.

A unique dispenser holds DecapiCones® open and ready for use. Simply hold DecapiCone in one hand and introduce the animal with the other. Animals enter readily, heading for the breathing hole at the small end. Then roll and squeeze the large end closed.

May be used repeatedly for injections and discarded when soiled. For decapitation, hold at the rear and insert the small end into decapitator.

MODEL	DESCRIPTION
MDC-200	DecapiCones® for Mice (Includes: 2 dispensers, 100 bags each. Total 200 cones)
DC-200	DecapiCones® for Rats (Includes: 4 dispensers, 50 bags each. Total 200 cones)
DCL-120	DecapiCones® for Large Rats (500-800g) (Includes: 4 dispensers, 30 bags each. Total 120 cones)

Gloves

Armor Touch Metal Mesh® Gloves

Protects hands from teeth and claws when handling small animals

YES! You have seen this material used for anti-shark suits.

Braintree Scientific's metal mesh gloves provide security and a sure grip. This is the original and only metal mesh glove for rodent handling.

Don't be fooled by imitations!

Experience shows animals are easier to control when handlers are relaxed and confident. Much better than leather since metal mesh is more flexible, is readily cleaned, won't stain or corrode and doesn't carry odors.

Gloves may be worn over surgical gloves. Adjustable buckle wrist band prevents slipping. Convert right to left by turning inside out. Order by size.

Please note these gloves run large.

MODEL	DESCRIPTION	SIZE	
MMG-XS	Armor Touch Metal Mesh Gloves	Extra Small	7
MMG-S	Armor Touch Metal Mesh Gloves	Small	8
MMG-M	Armor Touch Metal Mesh Gloves	Medium	9
MMG-L	Armor Touch Metal Mesh Gloves	Large	10

*Price per glove - ambidextrous (approximate surgical glove size)

T/FLEX® Plus Gloves

Gloves are suitable for the safe handling of small laboratory animals including rodents. T/FLEX® PLUS gloves are a 13 gauge seamless knit shell; material is Dyneema® engineered fibers plated with Lycra® - Spandex®, Thermax® and antimicrobial treatment Alphasan® combine to provide a comfortable glove featuring the highest cut resistance. Gloves conform to international safety standards for cut resistance.

MODEL	DESCRIPTION	SIZE
TFL-13G6	T/flex Plus handling gloves	Extra Small
TFL-13G7	T/flex Plus handling gloves	Small
TFL-13G8	T/flex Plus handling gloves	Medium
TFL-13G9	T/flex Plus handling gloves	Large
TFL-13G10	T/flex Plus handling gloves	Extra Large

Kevlar Goatskin Handling Gloves

Black goatskin leather glove, lined with 100% fine knit Kevlar. May be worn on their own for handling small animals. Fabricated for flexibility, comfort and safety during long periods of wear. Sold as pairs.

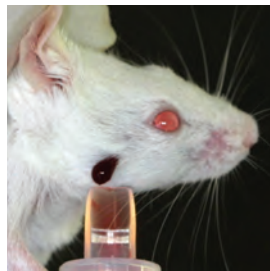| MODEL	DESCRIPTION	SIZE
KVL-LTH-S	Kevlar Deerskin Handling Gloves	Small
KVL-LTH-M	Kevlar Deerskin Handling Gloves	Medium
KVL-LTH-L	Kevlar Deerskin Handling Gloves	Large
KVL-LTH-X	Kevlar Deerskin Handling Gloves	Extra Large

Goldenrod Lancets

For facial vein (submandibular) blood samples

Allows user to take multiple blood samples from small animals in the same day and never lose or hurt an animal. Speed up the blood collecting process with this specially designed and sterile, disposable blood lancet that is inexpensive, easy, and fast to use.

Developed for researchers that requested a shorter point for use on very young mice and mice of all ages where only one or two drops of blood are needed. The shorter the point length, the less pain and trauma for the animal, and the quicker the healing.

► Safe - won't hurt the animal
► Easy to use - works every time
► Consistent amounts of blood each test
► Rapid collection - blood flow stops in seconds
► Allows multiple tests of the same animal
► Humane - similar lancets are used on humans

Goldenrod Lancets come in several point lengths for various size animals and blood volumes required. Choose the proper lancet point length corresponding to the age of the mouse and the volume of blood needed.

Point Length Recommendations:
For Mice: 3mm - for only 1 or 2 drops
4mm - under 2 months
5mm - 2 to 6 months
5.5mm - over 6 months

For Rats: 5.5mm - 6 mm under 3 months
6mm or 7mm - 3 to 4 months
7mm or 8mm - over 5 months

Always use the shortest point possible to draw the amount of blood required.

Always be careful when doing multiple bleedings in one day, or daily bleedings, that the volume of blood harvested does not exceed the total volume recommended for that size animal's safety and health.

MODEL	DESCRIPTION
GR-3MM	Goldenrod Animal Lancet 3mm Sterile, 5 trays of 200
GR-4MM	Goldenrod Animal Lancet 4mm Sterile, 5 trays of 200
GR-5MM	Goldenrod Animal Lancet 5mm Sterile, 5 trays of 200
GR-5.5MM	Goldenrod Animal Lancet 5.5mm Sterile, 5 trays of 200
GR-6MM	Goldenrod Animal Lancet 6mm Sterile, 5 trays of 200
GR-7MM	Goldenrod Animal Lancet 7mm Sterile, 5 trays of 200
GR-8MM	Goldenrod Animal Lancet 8mm Sterile, 5 trays of 200

Blood Lancets

Available, sterile disposable individually wrapped stainless steel blood lancets accepted by the FDA as a Category II medical device

Easy to grip. Medipoint's quality management system is ISO 13485:2016/MDSAP Certified. Ultra-Keen point tapers from all sides. Made from finest quality stainless steel, "Sure Grip" knurls prevent slipping, extra length for easy handling. Controlled penetration.

MODEL	DESCRIPTION
19570-200	Medipoint Blood Lancets, box of 200
19570-1000	Medipoint Blood Lancets, box of 1,000

Microvette® CB 300

Capillary collection and sample container in one unit

The Microvette® CB 300 0.3ml capillary tube, along with its attached push cap, is supplied complete with a carrier tube that is also suited for transport and centrifugation. Cylindrical outer tube is ideal for attachment of a barcode label for direct sample analysis.

Extremely slim design of the Microvette® CB 300's capillary tube ensures optimum serum/plasma recovery following centrifugation.

MODEL	DESCRIPTION	VOLUME	UNITS
MV-CB300-16440-BX	Serum/Clotting Activator	0.3ml	100/pk
MV-CB300-16440-CS	Serum/Clotting Activator	0.3ml	1000/cs
MV-CB300-16443-BX	Lithium-Heparin	0.3ml	100/pk
MV-CB300-16443-CS	Lithium-Heparin	0.3ml	1000/cs
MV-CB300-16444-BX	Hematology/Potassium EDTA	0.3ml	100/pk
MV-CB300-16444-CS	Hematology/Potassium EDTA	0.3ml	1000/cs

Microvette® 100/200

Provides all the benefits of a universally suitable capillary blood collection system

The Microvette® 100/200 offers the ideal solution for collection of even the smallest blood volumes. Preassembled end-to-end capillary ensures a controlled collection to capillary technique. The Microvette® enables blood sampling using either the special rim or gravity-flow principle without any problem.

Depending on individual requirements, the Microvette® is available with a cylindrical inner tube for optimum mixing results or a conical inner tube for a high serum/plasma supernatant. Cylindrical outer container is ideal for barcodes and patient labels. Special cap design minimizes aerosol effect when tube is opened and provides safe sealing features.

MODEL	DESCRIPTION	VOLUME	UNITS
MICROVETTE 100 -100µL, Conical inner tube			
MV-100-201280-BX	Serum	100 µL	100/pk
MV-100-201280-CS	Serum	100 µL	1,000/cs
MV-100-201282-BX	Lithium-Heparin	100 µL	100/pk
MV-100-201282-CS	Lithium-Heparin	100 µL	1,000/cs
MICROVETTE 100 -100µL, Round bottom inner tube			
MV-100-201278-BX	Potassium EDTA	100 µL	100/pk
MV-100-201278-CS	Potassium EDTA	100 µL	1,000/cs
MICROVETTE 200 -200µL, Conical inner tube			
MV-200-201289-BX	Glucose	200 µL	100/pk
MV-200-201289-CS	Glucose	200 µL	1,000/cs
MV-200-201290-BX	Serum	200 µL	100/pk
MV-200-201290-CS	Serum	200 µL	1,000/cs
MV-200-201292-BX	Lithium-Heparin	200 µL	100/pk
MV-200-201292-CS	Lithium-Heparin	200 µL	1,000/cs
MICROVETTE 200 -200µL, Round bottom inner tube			
MV-200-201288-BX	Potassium EDTA	200 µL	100/pk
MV-200-201288-CS	Potassium EDTA	200 µL	1,000/cs
MV-200-201291-BX	Serum-Gel	200 µL	100/pk
MV-200-201291-CS	Serum-Gel	200 µL	1,000/cs

All prices subject to change without notice.

Microvette® 300/500

Blood collection with collection rim

These Microvette® tubes are ideal for collection of blood using gravity-flow principle of collection. Any part of the entire rim can be used. The special conical design of the Microvette® 300's inner tube enables thorough mixing, even with small sample volumes. Microvette® offers all the advantages of a modern blood collection system:

► Choice of different inner tube designs with 300 or 500 µL volume capacity and corresponding graduation
► Special twist cap design is easy to open and minimizes aerosol effect
► Cylindrical outer container is ideal for barcode or patient labels

MODEL	DESCRIPTION	VOLUME	UNITS
Microvette 300			
MV-300-201308-PK	Serum	300 µL	100/pk
MV-300-201308-CS	Serum	300 µL	1,000/cs
MV-300-201309-PK	Lithium-Heparin	300 µL	100/pk
MV-300-201309-CS	Lithium-Heparin	300 µL	1,000/cs
Microvette 500			
MV-500-201339-BX	K2 EDTA	500 µL	100/pk
MV-500-201339-CS	K2 EDTA	500 µL	1,000/cs
MV-500-201341-BX	EDTA	500 µL	100/pk
MV-500-201341-CS	EDTA	500 µL	1,000/cs
MV-500-201343-BX	Serum	500 µL	100/pk
MV-500-201343-CS	Serum	500 µL	1,000/cs
MV-500-201344-BX	Serum-Gel	500 µL	100/pk
MV-500-201344-CS	Serum-Gel	500 µL	1,000/cs
MV-500-201345-BX	Lithium-Heparin	500 µL	100/pk
MV-500-201345-CS	Lithium-Heparin	500 µL	1,000/cs
MV-500-201346-BX	Lithium-Heparin Gel	500 µL	100/pk
MV-500-201346-CS	Lithium-Heparin Gel	500 µL	1,000/cs

Multivette® 600

Capillary and venous blood collection in one system

The unique Multivette® 600 is the only product that can collect both venous and capillary blood. For venous blood collection, a Luer needle is connected to the capillary tube of the Multivette®, which automatically fills by normal venous pressure. Capillary blood is performed using the end-to-end principle. The special pre-assembled capillary tube is designed to hold 600µL of blood.

MODEL	DESCRIPTION	VOLUME	UNITS
MV-600-151670-BX	Serum/Clotting Activator	600 µL	100/pk
MV-600-151670-CS	Serum/Clotting Activator	600 µL	1000/cs
MV-600-151671-BX	Hematology/Potassium EDTA	600 µL	100/pk
MV-600-151671-CS	Hematology/Potassium EDTA	600 µL	1000/cs
MV-600-151672-BX	Glucose/Flouride	600 µL	100/pk
MV-600-151672-CS	Glucose/Flouride	600 µL	1000/cs
MV-600-151673-BX	Plasma /Lithium-Heparin	600 µL	100/pk
MV-600-151673-CS	Plasma /Lithium-Heparin	600 µL	1000/cs
MV-600-151674-BX	Serum Gel/Clotting Activator	600 µL	100/pk
MV-600-151674-CS	Serum Gel/Clotting Activator	600 µL	1000/cs
MV-600-151675-BX	Plasma Gel/Lithium-Heparin	600 µL	100/pk
MV-600-151675-CS	Plasma Gel/Lithium-Heparin	600 µL	1000/cs

A full selection of Sarstedt tubes is available, please email info@braintreesci.com for details and pricing.

Minivette® POCT

Easy sample recovery due to optimal capillary features

► Precise dispensing of small whole blood volumes
► Prevents spillage during transfer to test card
► Available in 10µL, 20µL and 50µL volumes
► Preparations: Neutral, heparin and EDTA

MODEL #	DESCRIPTION	VOLUME	COLOR CODE	UNITS
MP10-2111-PK	Neutral	10 µL	White	200/pk
MP10-2111-CS	Neutral	10 µL	White	1,000/cs
MP20-2111-PK	Neutral	20 µL	White	200/pk
MP20-2111-CS	Neutral	20 µL	White	1,000/cs
MP50-2111-PK	Neutral	50 µL	White	200/pk
MP50-2111-CS	Neutral	50 µL	White	1,000/cs
MP20-2112-PK	Lithium-Heparin	20 µL	Orange	200/pk
MP20-2112-CS	Lithium-Heparin	20 µL	Orange	1,000/cs
MP50-2112-PK	Lithium-Heparin	50 µL	Orange	200/pk
MP50-2112-CS	Lithium-Heparin	50 µL	Orange	1,000/cs
MP20-2113-PK	EDTA	20 µL	Red	200/pk
MP20-2113-CS	EDTA	20 µL	Red	1,000/cs
MP50-2113-PK	EDTA	50 µL	Red	200/pk
MP50-2113-CS	EDTA	50 µL	Red	1,000/cs

Prepared Micro Tubes with Attached Push Cap Closure

► Skirted, conical base and label
► Preparations: Serum clotting activator, plasma lithium heparin, hematology potassium EDTA and coagulation citrate

MODEL	DESCRIPTION	VOLUME	UNITS
PMT-1500-PK	Serum-Gel	1.1ml	100/pk
PMT-1500-CS	Serum-Gel	1.1ml	1,000/cs
PMT-1501-PK	Serum	1.3ml	100/pk
PMT-1501-CS	Serum	1.3ml	1,000/cs
PMT-1503-PK	Lithium-Heparin	1.3ml	100/pk
PMT-1503-CS	Lithium-Heparin	1.3ml	1,000/cs
PMT-1504-PK	EDTA	1.3ml	100/pk
PMT-1504-CS	EDTA	1.3ml	1,000/cs
PMT-1506-PK	Citrate	0.5ml	100/pk
PMT-1506-CS	Citrate	0.5ml	1,000/cs

Prepared Micro Tubes with Screw Cap Closure

► Closure contains integral O-ring
► Sample volume 1.3ml
► Skirted, conical base
► Label

MODEL	DESCRIPTION	VOLUME	UNITS
MT-1350	Citrate	1.3ml	1,000/cs
MT-1378	Serum/Gel	1.1ml	1,000/cs
MT-1392	Serum/Clotting Activator	1.3ml	1,000/cs
MT-1393	Plasma /Lithium-Heparin	1.3ml	1,000/cs
MT-1395	Hematology/Potassium EDTA	1.3ml	1,000/cs

Microvette® APT Automated Processing Tubes

► Automated sample processing from 250 µL sample volume
► Entire collection rim promotes optimum mixing with the anticoagulant
► Leak-proof cap with pierceable membrane
► K₂ EDTA preparation for 250-500 µL capillary blood

Specifically developed for automated processing in blood count analysis systems and meets all important processing requirements for a primary container, as the outer tube dimension is 75mm x 13mm.

MODEL	DESCRIPTION	VOLUME	UNITS
MV-APT-1330	K2 EDTA	250-500 µL	500/cs
MV-APT-1331	K2 EDTA with capillary	250 µL	500/cs

SureSeal™ Sterile Transport Tubes

Used to store, transport or freeze samples, 5ml (16 x 60mm) and 10ml (16 x 80mm) tubes are fitted with leak-proof screw-caps. High-grade polypropylene with vivid white printed graduations and marking area.

► Tubes are self-standing and come packaged in 10 bags of 100 tubes
► Leak-proof, 1.25 turn screw-cap (attached)
► Meet 95kPa transportation guidelines
► Sterile, RNase, DNase, pyrogen free

MODEL	DESCRIPTION	VOLUME	UNITS
C1813	SureSeal™ Transport Tubes	5ml	1000/cs
C1814	SureSeal™ Transport Tubes	10ml	1000/cs

SpectraTube™ Centrifuge Tubes

Leak proof premium polypropylene conical 15mL and 50mL centrifuge tubes with exceptionally uniform wall thickness. Suitable for stem cell research.

► Maximum centrifugal forces are 12,000xg for 15ml tubes and 15,000xg for 50ml
► For sample storage as low as -86°C
► Color coded caps for easy sample identification
► Sterile (gamma), RNase, DNase, pyrogen and cytotoxin free

MODEL	DESCRIPTION	VOLUME	UNITS
C2715	SpectraTube™ 50 tubes/foam rack	15ml	500
C2716	SpectraTube™ 25 tubes/bag per color	15ml	500
C2750	SpectraTube™ 50 tubes/foam rack	50ml	500
C2751	SpectraTube™ 25 tubes/bag per color	50ml	500

Screw Cap MicroTube, 0.5ml, Neutral

Screw cap micro tubes 0.5ml with skirted base. Reduce sample loss caused by evaporation. Secure screw cap with O-ring seal. PP tube and cap, autoclavable at 121°C. Circumference knurls allow caps to be screwed onto micro tubes single-handedly.

MODEL	DESCRIPTION	VOLUME	UNITS
MT-72-730-006	Cap assembled, writing bar, sterile	0.5ml	1,000/cs
MT-72-730-007	Cap included, writing space	0.5ml	1,000/cs
MT-72-730-005	Cap assembled, sterile	0.5ml	1,000/cs
MT-72-730	Cap included	0.5ml	1,000/cs

SureStrain™ Cell Strainers

Fast and easy-to-use solution for detaching, isolating/straining cells from clusters and tissues. A polypropylene frame supports a nylon mesh. Three color-coded porosities: 40µm (blue), 70µm (white), and 100µm (yellow).

Molded grip and unique geometric eliminates contamination risk associated with fingers contacting the filtered suspension, mesh and/or interior surfaces. Attach strainer to top of a 50mL tube and add cell suspension/sample, or attach provided reducing adapter for use in 5mL or 15mL tubes.

Supplied sterile and individually wrapped.

MODEL	DESCRIPTION	UNITS/PK
C40-100	100µm Cell Strainer (yellow) with 1 reducing adapter......	50
C40-15	Reducing Adapter for smaller tubes...................	25
C40-40	40µm Cell Strainer (white) with 1 reducing adapter	50
C40-70	70µm Cell Strainer (blue) with 1 reducing adapter	50
C40-10	PolyPestle™ Double-Sided Pestle for cell strainers and..... 1.5ml microtubes	50

ReadyStrain™

All the necessary parts for filtration of cell suspensions and into a single, preassembled, ready-to-use, sterile packet. Each kit contains a sterile SureStrain™ Strainer pre-attached to a sterile 50mL tube (40, 70 or 100µm) and separate sterile screw cap. Supplied in easy open individual "tear strip" bags and gamma sterilized.

MODEL	DESCRIPTION	UNITS/PK
C50-100	100µm Cell Straining Kit with strainer (yellow)	50
C50-70	70µm Cell Straining Kit with strainer (white)	50

LinkLabel™ Bluetooth Enabled Label Printer

► Free downloadable Label Pro™ app allows for limitless customization
► Hundreds of pre-programmed scientific characters

The convenience of a lab pen with benefits of a desktop printer. Type desired copy, press print, cut with lever and apply. Standard label tapes can be autoclaved, boiled or frozen as low as -50°C. Ultra-low label tapes for storage as low as -196°C or for liquid nitrogen applications. Label tapes sold separately.

MODEL	DESCRIPTION
L3000	LinkLabel™ Bluetooth Enabled Label Printer with 115V power supply (includes one L9010-18WK cassette)
L9010	LABeler® Lab Printer with 115V power supply
L9010-6WK	26' Cassette of 6mm Lab Tape, white with black print
L9010-6CK	26' Cassette of 6mm Lab Tape, clear with black print
L9010-12WK	26' Cassette of 12mm Lab Tape, white with black print
L9010-12CK	26' Cassette of 12mm Lab Tape, clear with black print
L9010-12YK	26' Cassette of 12mm Lab Tape, yellow with black print
L9010-12RW	26' Cassette of 12mm Lab Tape, red with white print
L9010-12BW	26' Cassette of 12mm Lab Tape, blue with white print
L9010-12GW	26' Cassette of 12mm Lab Tape, green with white print
L9010-18WK	26' Cassette of 18mm Lab Tape, white with black print
L9010-24WK	26' Cassette of 24mm Lab Tape, white with black print
L9010-24CK	26' Cassette of 24mm Lab Tape, clear with black print
L9010-12ULT	20' Cassette of 12mm Ultra-low Lab Tape, white with black print
L9010-24ULT	20' Cassette of 24mm Ultra-low Lab Tape, white with black print

IsoFreeze® PCR Rack

Consistently cooled samples

When preparing PCR samples in plates, strips and single tubes, PCR solutions must be kept cool as warming may result in unspecific PCR products. IsoFreeze® PCR Racks prevent sample damage caused by premature warming. Advantages: Once pre-chilled, the rack can maintain PCR sample temperature at approximately 4°C for up to 3 hours in ambient conditions. If sample temperatures exceed 7°C, the rack visibly changes color from purple to pink to alert users. Racks are sold in a pack of two so that a warm rack can be conveniently exchanged for a chilled rack during prolonged use.

MODEL	DESCRIPTION
ISO-FREEZE	IsoFreeze PCR Rack, 2 pack

Liquid Nitrogen Cooled Mini Mortar and Pestle Set

► Permits grinding of smaller amounts of tissue right in a 1.5ml microcentrifuge tube resulting in reduced sample loss and collection time
► Prevents tube from cracking by eliminating direct contact with liquid nitrogen
► Includes 5" long stainless steel pestle with 4"W (10.2cm) x .75"D (1.9cm) polyethylene handle
► Removable, insulated mortar handle, 4"L (10.2cm)

Freeze and process tiny tissue samples within a microcentrifuge tube. Mortar is suspended above a stainless steel cavity which holds liquid nitrogen and is nested in a heavily insulated blue polyethylene housing.

MODEL	DESCRIPTION
372600100	Liquid Nitrogen Cooled Mini Mortar and Pestle Set

BioBucket™ Collapsible Bucket

► Usable with dry or crushed ice
► Inner-lid access port for enhanced temperature retention
► Attached handle and molded base grip

Collapsible design makes it an ideal container for any lab or field operation looking to conserve space. Can be used as an ice bucket or as portable liquid container.

MODEL	DESCRIPTION
B8300	BioBucket Collapsible Laboratory Bucket

CoolCube™

Microtube and microplate cooler

Stores samples safely on lab bench without sample degradation due to temperature increase or fluctuation. Constructed of DuraStar (a high strength polymer) and a proprietary gel refrigerant, maintains temperature at approximately 0°C for up to four hours.

Place CoolCube in a freezer overnight and it's ready for use, keeping samples cool and safe at bench, without messy ice buckets or wet tubes.

One side can be used as a convenient PCR workstation, with wells for 10 standard 1.5/2ml microtubes and one 96 well PCR plate or 0.2ml tubes/strips or reverse side holds 36 standard 1.5/2ml microtubes.

MODEL	DESCRIPTION
R-1000	CoolCube Microtube and PCR Plate Cooler

CoolCaddy™ PCR Work Station

► Maintains 2-4°C for 5 hours
► Keeps samples cool, but not frozen
► Accommodates several different vessel types – vials, tubes, strips, plates and reservoirs

CoolCaddy™ keeps your reagents and samples cool on the lab bench without using crushed ice. Simply store CoolCaddy overnight in any standard freezer and it's ready to hold temperature between 2° and 4°C for up to 5 hours. Idea. for transporting your experiment from bench to freezer.

MODEL	DESCRIPTION
R4015	CoolCaddy™ PCR Work Station 8.3" x 6.8" x 1.8" (17 x 21 x 4cm)

Cryogenic Boxes

► Polycarbonate, withstands temperatures -196°C to +121°C
► Convenient hinged lid
► Unique barcode on every box

Ultra-low temperature storage boxes designed to hold 1.2ml to 2ml cryogenic storage vials. Fully autoclavable. Compatible with all standard 5¼" (133mm) freezer racks. Clear lids are hinged and have printed indexing for sample identification purposes. 5.25" x 5.25" x 2"
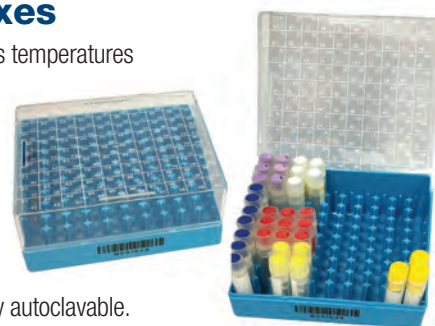
MODEL	DESCRIPTION	QTY
R2081	Cryo Storage Box, 81 place (9x9)	5
R2100	Cryo Storage Box, 100 place (10x10)	5

Hybex™ Reusable Media Bottles

With their superior chemical resistance, these bottles are ideal for storage of reagents, culture media, biological fluids and a variety of other aqueous and nonaqueous solutions.

Specifications:
Material: Hybex™ borosilicate glass (3.3)
Cap thread size: GL45*
Temperature range: -70° to 500°C
Sterilization: Autoclave or dry heat
Cap material: Polypropylene (140°C)
Cap colors: Standard blue, green, purple, yellow, white, assorted

Please replace -X with (-B) for blue, (-G) for green, (-P) for purple, (-Y) for yellow, (-W) for white or (-AS) for assorted caps (2 of each color)

MODEL	DESCRIPTION
B3000-50-X	Bottle, 50ml (GL32), 10/pk.
B3000-100-X*	Bottle, 100ml (GL45) 10/pk.
B3000-250-X*	Bottle, 250ml (GL45) 10/pk.
B3000-500-X*	Bottle, 500ml (GL45) 10/pk.
B3000-1000-X*	Bottle, 1000ml (GL45) 10/pk.
B3000-2000-X*	Bottle, 2000ml (GL45) 5/pk.
B3000-SP-X*	Bottle, StarterPack (GL45) (pack of 10 bottles, includes 2 x 100ml, 3 x 250ml, 3 x 500ml, and 2 x 1L)

*50ml bottles are only supplied with GL32 sealing caps

Replacement caps available at www.braintreesci.com

Stainless Steel Brain Matrices

Highly polished, high quality stainless steel matrices are precisely machined to ensure reproducible sections. Brain matrices allows users to slice either coronal (perpendicular to center line) or sagittal (parallel to center line) sections through the brain at 1mm or 0.5mm intervals.

MODEL	DESCRIPTION
BS-SS-400C	Neonatal Mouse up to 3gr, 1mm Coronal
BS-SS-400S	Neonatal Mouse up to 3gr, 1mm Sagittal
BS-SS-405C	Neonatal Mouse up to 3gr, 0.5 mm Coronal
BS-SS-405S	Neonatal Mouse up to 3gr, 0.5 mm Sagittal
BS-SS-300C	Young Mouse 3-14gr, 1mm Coronal
BS-SS-300S	Young Mouse 3-14gr, 1mm Sagittal
BS-SS-305C	Young Mouse 3-14gr, 0.5mm Coronal
BS-SS-305S	Young Mouse 3-14gr, 0.5mm Sagittal
BS-SS-500C	Mouse 40-75gr, 1mm Coronal
BS-SS-500S	Mouse 40-75gr, 1mm Sagittal
BS-SS-505C	Mouse 40-75gr, 0.5 mm Coronal
BS-SS-505S	Mouse 40-75gr, 0.5 mm Sagittal
BS-SS-600C	Rat 175-300gr, 1 mm Coronal
BS-SS-600S	Rat 175-300gr, 1 mm Sagittal
BS-SS-605C	Rat 175-300gr, 0.5 mm Coronal
BS-SS-605S	Rat 175-300gr, 0.5 mm Sagittal
BS-SS-700C	Rat 300-600gr, 1 mm Coronal
BS-SS-700S	Rat 300-600gr, 1 mm Sagittal
BS-SS-705C	Rat 300-600gr, 0.5 mm Coronal
BS-SS-705S	Rat 300-600gr, 0.5 mm Sagittal
BS-SS-0.5	Blades, Double Edge, 0.1mm for 0.5mm Matrice, 10/pk . . .

All prices subject to change without notice.

Shop online at www.braintreesci.com

Acrylic Matrices

High grade acrylic matrices are an economical method to obtain even slices of brain tissues from rats and mice.
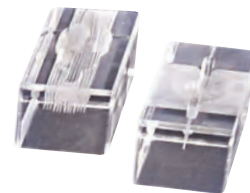
These units include the spinal and olfactory bulb notches.

MODEL	ANIMAL	SPECIFICATIONS
BS-A-5000C	Mouse	1mm section Coronal
BS-A-5000S	Mouse	1mm section Sagittal
BS-A-6000C	Rat	1mm section Coronal
BS-A-6000S	Rat	1mm section Sagittal

Precision Brain Slicer

Aids users in free hand dissection of discrete regions of rodent brain. Allows user to slice either coronal or sagittal sections through brain (including olfactory bulbs) at intervals as small as 1mm. All PBS's are identical to insure reproducible sections on a day to day, year to year basis.

MODEL	SPECIFICATIONS	CAVITY DIMENSIONS
BS-Z-2000C	Adult Mouse, 30gm Coronal	13.9 x 9.9 x 7.5mm
BS-Z-2000S	Adult Mouse, 30gm Sagittal	13.9 x 9.9 x 7.5mm
BS-Z-3000C	Rat, 125-185gm Coronal	20 x 13 x 6.8mm
BS-Z-3000S	Rat, 125-185gm Sagittal	20 x 13 x 6.8mm
BS-Z-4000C	Rat, 200-400gm Coronal	25.5 x 16 x 11.2mm
BS-Z-4000S	Rat, 200-400gm Sagittal	25.5 x 16 x 11.2mm

Tissue Slicer Blades

MODEL	DESCRIPTION
BS-BLADES	25 count Steel Blades . . . .

"Blue Wax" Dissection Tray

For detailed dissections

Specially formulated to provide proper consistency to allow pins to stick firmly and be easily removed. Environmentally safe wax - no toxic chemicals and no fire, health or reactivity hazards with this product. "Blue Wax" can be heated to renew surface and dissection tray can be reused several times.
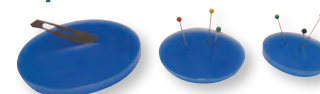
MODEL	DESCRIPTION
DTW-1	Dissection Tray 9" x 6.5" x 1" (each)
DTW-5	Dissection Tray 9" x 6.5" x 1" (5 pack)
DTL-1L	Large Dissection Tray 12.25" x 8.25" x 1.25" (each)

"Blue Wax" Tissue Processing Disc

Makes tissue processing easy and quick

Process tissue using a clean blue wax surface. Layout, pin, and trim tissue. Specially formulated to provide the proper consistency to allow pins to stick firmly and be easily removed.

MODEL	DESCRIPTION	QTY/PK
TPD-L	Large Tissue Processing Disc (4" dia., 0.25" thick)	10
TPD-M	Medium Tissue Processing Disc (2.75" dia., 0.25" thick)	10
TPD-S	Small Tissue Processing Disc (2" dia., 0.25" thick)	10
TPIN	Ball Head Tissue Pins, S/S (1.5" long)	50

NSET™ Non-Surgical Embryo Transfer Device

► Quick and effective procedure
► Reduces pain and suffering
► Humane alternative to surgery
► Clear tip

Allows non-surgical embryo transfer for the production of research (transgenic or knock-out). Eliminates pain and stress of surgery and anesthesia. Enables non-surgical unilateral transfer of embryos into uterine horn. A novel method for effective transfer of substances for studies of uterine physiology and bacterial infection. Can also replace oviduct surgery for production of transgenic mice via microinjection.

MODEL	DESCRIPTION	QTY/PK
MNSET-70010	NSET Non-Surgical Embryo & Sperm Transfer for Rats	10

Fast and Easy Vitrification

E80010	Cryodropper for Mouse Embryos	10
S80020	Cryodropper for Mouse Sperm	10

mC&I Cryopreservation and Insemination Device for Mice

► Quick and effective procedure
► Reduces pain and suffering
► Humane alternative to surgery
► Sterile and ready to use

Designed for assisting with non-surgical mouse artificial insemination and uterine physiological study procedures. Device

Pipette not included

allows uterine delivery of up to 40µl of liquid using a standard 200µl pipette. mC&I device eliminates need for anesthesia, analgesia, and post-operative recovery normally required for conventional procedures. Compare with time, expense, and training required to accomplish the same task with surgical methods – procedure is a rapid and cost-effective procedural refinement in alignment with the 3Rs principles of humane experimental techniques.

MODEL	DESCRIPTION	QTY/PK
C&I-60020	mC&I Device for Mice	10

New! KN-595 EGET Embryo Transfer Kit for Rats

EGET stands for **E**asy get next **G**eneration by **E**mbryo **T**ransfer. Conventionally, in order to "produce offspring from transplanted fertilized eggs," it is necessary to create pseudo-pregnant animals by cohabitating vasoligated males and females. Pseudo-pregnant production device (EGET) does not require a male, achieves artificial pseudo-pregnancy induction.

Allows for the production of transplanted fertilized eggs using a small, lightweight and simple operation. It is possible to produce offspring, and is expected to reduce the number of animals used and work time.

► Kit includes: one main unit, two tip probes and instruction manual (alkaline battery included cannot be replaced)
► Expiration date is one year or after 250 animals, whichever comes first

MODEL	DESCRIPTION
EGET-R	EGET Embryo Transfer Kit for Rats
EGET-M	EGET Embryo Transfer Kit for Mice

Disposable Biopsy Punch

MODEL	DESCRIPTION	UNITS
MTP-33-31AAP	1mm diameter, sterile, with plunger	25/box
MTP-33-31AP	1.5mm diameter, sterile, with plunger	25/box
MTP-33-31P	2mm diameter, sterile, with plunger	25/box
MTP-33-32P	3mm diameter, sterile, with plunger	25/box
MTP-33-31	2mm diameter, without plunger	50/box
MTP-33-34	4mm diameter, without plunger	50/box
MTP-33-35	5mm diameter, without plunger	50/box
MTP-33-36	6mm diameter, without plunger	50/box
MTP-33-37	8mm diameter, without plunger	50/box

BeadBug™ Microtube Homogenizer

For simultaneous homogenization of up to 3 samples takes place (often within 45 seconds) inside disposable 2ml screw cap microtubes. Optimized mixing motion causes rapid cell disruption through constant high velocity impact from hardened micro-beads. Developed for samples too tough to be homogenized in a common lab vortexer.

► Extremely powerful mixing for lysis, grinding or homogenization
► Faster and more effective than tissue grinders
► Up to three tube capacity and extremely compact foot print of just 7" x 8"
► Eliminates cross contamination associated with hand held homogenizers

Specifications:
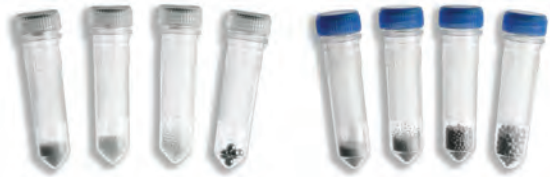**Speed range:** 2,700 to 4,000rpm
Capacity: 3 x 2ml (screw cap/non-skirted)
Timer: 3 sec. to 3 min.
Operating temperature range: +4°C to +65°C
Dimensions: 6.9" x 8.3" x 5.3"/17cm x 21cm x 13.5cm

MODEL	DESCRIPTION
D1030	BeadBug Microtube Homogenizer

Prefilled Tube Kits, Non-Skirted with Caps

MODEL	DESCRIPTION	BEAD SIZE	QTY
D1031-01	Standard Glass Beads	Ø: 0.1mm	50/pk
D1031-05	Standard Glass Beads	Ø: 0.5mm	50/pk
D1031-10	Standard Glass Beads	Ø: 1mm	50/pk
D1032-01	Triple-Pure High Impact Zirconium Beads	Ø: 0.1mm	50/pk
D1032-05	Triple-Pure High Impact Zirconium Beads	Ø: 0.5mm	50/pk
D1032-10	Triple-Pure High Impact Zirconium Beads	Ø: 1mm	50/pk
D1032-15	Triple-Pure High Impact Zirconium Beads	Ø: 1.5mm	50/pk
D1032-30	Triple-Pure High Impact Zirconium Beads	Ø: 3mm	50/pk
D1033-28	Stainless Steel (Acid-Washed) Beads	Ø: 2.8mm	50/pk
D1032-SK	Triple-Pure High Impact Zirconium Beads Starter Kit, Ø: 0.1, 0.5, 1, 1.5 and 3mm		10 each

Shop online at www.braintreesci.com

Bullet Blender® Homogenizer

Aim for higher efficiency, superior results and greater value

Ideal for a wide range of laboratory tasks, including disrupting, homogenizing, dissociating or lysing cells, tissues and plant matter. Achieves consistent results while savings time, effort and money. Uses commonly available tubes.

Lite/Pro   Gold

► Easy operation, no clamp plates or locking rings to fiddle with
► High-efficiency technology – "bullets" in Bullet Blender repeatedly strike tubes resulting in vigorous agitation of samples and collisions between samples and beads inside tubes
► Adjustable to handle gentle vortexing to homogenization of bones
► High yields, consistent results – minimal heat preserves sample quality
► No probes to clean between samples so there is no cross contamination
► Choose from a variety of beads including RNase free, packaged in bulk or pre-loaded in tubes. Includes starter pack sampling of beads
► Bullet Blender Storm and Gold models offer bigger motor for tough samples

Specifications:

Capacity: Process up to 24 samples in 1.5 or 2ml tubes, up to 12 samples in 5ml tubes, or up to 8 samples in 50ml tubes
Environment: Operational in constant 4°C to 50°C.
Air cooling option: Keeps samples near ambient temperatures
4C cooling option: Use dry ice to keep samples near 4C while processing
Dimensions: Most models: 9" W x 10" D/22cm x 25cm
　　　　　　　　Largest model: 13" W x 14" D/33cm x 35cm

MODEL	DESCRIPTION	SAMPLE CAPACITY	TUBE/ SAMPLE SIZE
BB-12LT	Bullet Blender Lite (Air cooling)	1-12	5ml tubes (0.1g - 1.0g)
BT-5E	Bullet Blender 5E Pro (Air cooling)	1-12	5ml tubes (0.1g - 1.0g)
BT24-M	Bullet Blender Storm Pro (Air cooling)	1-24	1.5ml tubes (up to 0.3g)
BB5E-AU	Bullet Blender 5 Gold (4C cooling)	1-12	5ml tubes (0.1g - 1.0g)
BB24-AU	Bullet Blender Gold (4C cooling)	1-24	1.5ml tubes (up to 0.3g)
BB50-DX	Bullet Blender 50-DX (Air cooling)	1-8	50ml tubes (0.1g - 13.5g)
BB50-AU	Bullet Blender 50 Gold (4C cooling)	1-8	50ml tubes (0.1g - 3.5g)

Prefilled Lysis Tube Kits

MODEL	DESCRIPTION	QTY
Prefilled with Stainless Steel Beads		
NAVYE1	1.5ml Eppendorf Safe-Lock tubes.	50
NAVYE1-RNA	1.5ml Eppendorf Safe-Lock tubes, RNase free.	50
NAVYE5	1.5ml Eppendorf Safe-Lock tubes.	250
NAVYE5-RNA	1.5ml Eppendorf Safe-Lock tubes, RNase free.	250
NAVYR1	1.5ml RINO screw-cap tubes prefilled	50
NAVYR1-RNA	1.5ml RINO screw-cap tubes, RNase free	50
NAVYR5	1.5ml RINO screw-cap tubes	250
NAVYR5-RNA	1.5ml RINO screw-cap tubes, RNase free	250
Prefilled with Beads		
GREENE1	1.5ml Eppendorf Safe-Lock tubes.	50
GREENE1-RNA	1.5ml Eppendorf Safe-Lock tubes, RNase free.	50
GREENE5	1.5ml Eppendorf Safe-Lock tubes.	250
GREENE5-RNA	1.5ml Eppendorf Safe-Lock tubes, RNase free	250
GREENR1	1.5ml RINO screw-cap tubes	50
GREENR1-RNA	1.5ml RINO screw-cap tubes, RNase free	50
GREENR5	1.5ml RINO screw-cap tubes	250
GREENR5-RNA	1.5ml RINO screw-cap tubes, RNase free	250

Call for additional beads and bead kits

myBath 8L Digital Water Bath

Superior accuracy and performance in a compact footprint. Easy-to-use controls allow user to digitally select and monitor settings. Large, 3-digit display. Quik-CAL™ feature allows for simple in-lab calibration. High efficiency insulation maintains temperature stability and uniformity while keeping housing cool to the touch.

► Racks available to accommodate 1.5/2.0ml, 15ml and 50 ml tubes
► Seamless stainless steel chamber and integrated drain
► Removable gabled hinged lid diverts condensation away from samples

Specifications:

Temperature range: Ambient +5 to 100°C in 0.1°C increments
Temperature accuracy: ±0.5°C
Temperature uniformity: ±0.2°C
Dimensions: Exterior 11.2" x 17.5" x 12.4"
　　　　　　　　Chamber 9.5" x 12.8" x 5.9"

MODEL	DESCRIPTION
B2000-8	myBath 8L Digital Water Bath
B2000-8-T150	Tube rack for 76 x 15 ml tubes
B2000-8-T500	Tube rack for 30 x 50 ml tubes

Benchmark Traditional Dry Baths

BSH1001   BSH1002   BSH1004

Accurate "set and walk away" digital temperature selection accurate within ±0.2°C. High grade aluminum block cavities are precision machined providing unsurpassed temperature transfer. Digital timer can alert user that a chosen time interval has timed out (timer does not turn heater off).

► Blocks available for compatibility with common tubes and plates
► Built-in user recalibration function for long term temperature accuracy
► Includes block lifter with temperature insulated handle

Specifications:

Temperature range: Ambient +5 to 150°C in 0.1°C increments
　　　　　　　　(max. temp of BSH1004 is 130°C)
Temperature accuracy & uniformity: ±0.2°C
Timer: 1 to 999 minutes
Dimensions: Single position: 7.9" x 9" x 3.2"/20 cm x 23cm x 8cm
　　　　　　　　Double position: 8.7" x 10.3" x 3.2"/22 cm x 26cm x 8cm
　　　　　　　　Four position: 8.7" x 14" x 3.2". / 22 cm x 35.5 cm x 8 cm

MODEL	DESCRIPTION
BSH1001	Benchmark Digital Dry Bath, single position, without blocks
BSH1002	Benchmark Digital Dry Bath, double position, without blocks
BSH1004	Benchmark Digital Dry Bath, four position, without blocks
BSH1500	Block, 24 x 1.5ml
BSH1520	Block, 24 x 1.5/2.0ml
BSH02	Block, 48 x 0.2ml tubes or 6 PCR strips
BSH05	Block, 24 x 0.5ml
BSH5MT	Block, 12 x 5ml Centrifuge Tubes (17mm diameter)
BSH15	Block, 12 x 15ml (block height: 3.25")
BSH50	Block, 5 x 50ml (block height: 3.25")
BSH10	Block, 20 x 10mm (or 20 x 2.0ml)
BSH13	Block, 20 x 13mm (or 20 x 5/7ml blood tube)

Additional blocks available at www.braintreesci.com

My Block™

A personal sized dry bath

- ► Compact, fits in the palm of your hand
- ► Exchangeable blocks, for tubes 0.2 to 50ml
- ► Clear hinged cover ensures temperature uniformity
- ► Can be used "on-the-go" wherever a 12 volt power source is available
- ► Touch pad control with digital display for "set and walk away" temperature selection and unrivaled accuracy

Specifications:

Temperature range: Ambient +5 to 100°C in 0.1°C increments
Temperature accuracy: ±0.5°C
Temperature uniformity: ±0.2°C
Dimensions: 4.4" x 5.9" x 4"/11cm x 15cm x 10cm

MODEL	DESCRIPTION
BSH200	MyBlock Mini Digital Dry Bath with block lifter (Blocks sold separately)
BSH-300	MyBlock Mini Digital Dry Bath with block lifter and cooling (Blocks sold separately)
BSH200-02	Block, 40 x 0.2ml or 5 x PCR strips
BSH200-05	Block, 24 x 0.5ml tubes
BSH200-15	Block, 15 x 1.5ml tubes
BSH200-1520	Block, 15 x 1.5 or 2ml tubes
BSH200-150	Block, 4 x 15ml* tubes
BSH200-500	Block, 2 x 50ml* tubes
BSH-200-CV	Block for 8 Cuvettes

*Not compatible with clear cover

MyBlock™ HL Mini Dry Bath

- ► Heated lid prevents evaporation and condensation
- ► Compact, fits in the palm of your hand
- ► Independent temperature control of lid and block
- ► Exchangeable blocks for 0.2 to 0.5ml tubes
- ► Room temperature to 37°C in just 2 minutes
- ► Ideal for temperature sensitive applications

Specifications:

Temperature range: Ambient +5 to 100°C in 0.1°C increments
Temperature accuracy: ±0.3°C
Temperature uniformity: ±0.2°C
Dimensions: 4" x 6" x 4.5"/10.5cm x 15cm x 11.5cm

MODEL	DESCRIPTION
BSH200-HL	MyBlock™ HL Mini Dry Bath with Heated Lid
BSH200-15HL	MyBlock™ 15 x 1.5ml tubes

Additional blocks available, see BSH-200

Shop online at www.braintreesci.com

Magnetic Induction Stirrer

Advanced magnetic coil technology drives spinning of stir bar maintaining continuous, constant speed for reproducible results. Magnetic coupling is optimized by using alternating current (AC) as its driving force strong enough to stir viscous solutions. Motor-less operation generates minimal heat ideal for stirring temperature sensitive samples and environments for long periods.

Includes 3 liter Magnetic Induction Stirrer, 2 stir bars 35mm x 12mm, cylindrical shape, silicone anti-skid plate cover, and low voltage, double insulated power adapter. 5 year warranty.

- ► Multiple stirring modes are easy to program
- ► Bright digital display precisely controls time and speed
- ► No moving parts, for quiet operation and less vibration
- ► Quickly meets stirring speeds with rapid acceleration and braking (less than 10 seconds)

Specifications:

Speed range: 50 to 2,000 rpm variable, 10 rpm increments
Run time range: 30 seconds to 60 minutes, variable, 1 second increments or continuous
Stirrer mode: Single clockwise, single c. clockwise, auto reverse rotation (1 to 99 cycles 50% duty)
Mixing surface: 165 mm diameter, silicone mat 160 mm diameter
Weight: 2.5 lb/1.13kg
Dimensions: 9.7" x 7.7" x 3"/24.5cm x 19.5cm x 7.5cm

MODEL	DESCRIPTION
120584	Magnetic Induction Stirrer, grey/purple
120585	Magnetic Induction Stirrer, grey/blue

Mini Magnetic Stirrer

An economical solution made for ultimate function with optimal magnetic coupling to ensure dependable stirring efficiency. Powerful magnetic coupling of high-quality stir bar and unit ensures consistent accurate alignment which significantly reduces spin-outs during acceleration/deceleration of spin speeds and ensure maximum stirring performance. Low-profile design, lightweight for transporting with ease and small footprint saves valuable space on a bench top.

Includes Mini Magnetic Stirrer, 2 stir bars 9mm x 35mm, low voltage, double insulated power adapter with 4 interchangeable plugs. 5 year warranty.

- ► Easy to clean – made from chemical resistant ABS and PC blend
- ► Quiet operation with low vibration
- ► Ideal for routine stirring applications

Specifications:

Speed range: 200-2,200 rpm (infinitely adjustable)
Capacity: Up to 3 liters H_2O
Weight: 0.985 lbs/0.447kg
Dimensions: 7.2" x 5.2" x 1.85"/18.3cm x 13.2cm x 4.7cm

MODEL	DESCRIPTION
120155	Mini Magnetic Stirrer, grey/purple
120595	Mini Magnetic Stirrer, grey/blue

All prices subject to change without notice.

New! Benchmark Hot Plate Stirrers

Hotplates, stirrers and hotplate-stirrers feature an exceptionally durable, chemical resistant white ceramic work surface. Space-efficient design ideal for use on crowded benchtops.

Advanced microprocessor controls with convenient turn knobs allow quick, precise adjustment and maintenance of speed/temperature. Safety indicator LED's on front panel indicate when heating and/or stirring functions have been activated.

Square 7.1"x7.1" work surface accommodates a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels. Hotplate/magnetic stirrer H4000-HS includes support rod for mounting thermometers and temperature probes.

► Large, white ceramic top plate
► Compact 8"x9" footprint

MODEL	DESCRIPTION
H4000-HS	Hotplate Magnetic Stirrer, 7.5"x7.5", 115V
H4000-H	Hotplate, 7.5"x7.5", 115V
H4000-S	Magnetic Stirrer, 7.5"x7.5", 115V
H4000-ROD	Rod for Hotplate/Stirrer

Orbi-Shaker™

► Perfectly circular 19mm orbit for aeration and mixing
► Digital speed control up to 300 rpm

Features 9.5" x 8" non-slip, rubber coated platform for tissue culture flasks, petri dishes and staining trays. Additional platforms are available including the Magic Clamp™ platform for use with Erlenmeyer flasks and test tube racks. Unique, magnetic attachment method is the easiest way to instantly change between flask clamps of different sizes.

Specifications:

Speed range/increment: 50 to 300 rpm in 10 rpm increments
Orbit: 19mm (3/4")
Maximum capacity: 4 x 1L or 4 kg
Standard platform dimensions: 9.5" x 8"/24cm x 20cm
Dimensions: 11" x 10.7" x 5"/28cm x 27cm x 13cm
Operating Temperature: 4° to 65°C

MODEL	DESCRIPTION
BT302-JR	Orbi-Shaker Jr. Platform 9.5"x8"
BT302-MR	Magic Clamp™ universal platform only 11"x9.5" for flasks and tube racks (clamps sold separately)
BT302-MR-500	Clamp for Magic Clamp platform, 500ml (max. 5)
BT302-MR-250	Clamp for Magic Clamp platform, 250ml (max. 8)
BT302-MR-125	Clamp for Magic Clamp platform, 125ml (max. 12)
BT302-MR-50	Clamp for Magic Clamp platform, 50ml
BT302-MR-1550	Tube rack for Magic Clamp platform, 30x15ml and 20x50ml conical tubes (max. 1)
BT302-P-500	Dedicated platform with 5 x 500ml Erlenmeyer flask clamps attached
BT302-P-250	Dedicated platform with 8 x 250ml Erlenmeyer flask clamps attached
BT302-P-125	Dedicated platform with 12 x 125ml Erlenmeyer flask clamps attached
BT302-P-MP	Dedicated platform, 4 x microplates (standard or deepwell)
BT302-P-SP	Spring rack platform, for uncommon vessels and containers

Digital Orbital Shaker

Allows user to create matrix for vessels of all shapes and sizes with hi-lo platform and bungee cords. Instantly adjusts to weight load changes and unbalanced loads with no-stop electronic motor feedback allowing for truly reproducible results. Suitable for use in incubators (excluding CO_2) and cold rooms within the stated temperature range.

Includes Digital Orbital Shaker, skid-free rubber platform mat, 8 bungee cord set, universal hi-lo platform with soft rubber edge bumpers, low voltage, double insulated power adapter (110–240vac, 50/60 hz) with 4 interchangeable plug types. 5 year warranty. For indoor use only.

► Soft start and shut down feature reduces spilling from full vessels
► Designed to handle heavy loads up to 10 lbs. (4.5kg)
► Overload protection shut-off prevents overloading

Specifications:

Speed range: 20 - 300 rpm, 1 rpm increments
Orbit diameter: 0.8"/19.0mm
Run time range: 0-74 hours, 59 min., 1 second increments or continuous
Ambient conditions: 2°-40°C (36°-104°F); 20-80% RH, non-condensing
Dimensions: Platform interiors: 11" x 11"/27.9cm x 27.9cm
Overall: 12.4" x 7.8" x 12.2"/31.4cm x 19.7cm x 31cm

MODEL	DESCRIPTION
120460	Digital Orbital Shaker

Incu-Shaker Mini

Remarkably small footprint with large work space. Accepts several platforms for use with a variety of flasks, tubes and other vessels. Standard platform features non-slip, rubber coated surface, ideal for tissue culture flasks, petri dishes and staining trays. Integral microprocessor includes a constant monitoring system that verifies and maintains accuracy through duration of program. Exceptional temperature uniformity.

► Over-temperature/over-speed controls ensure safety and sample integrity
► Optional MAGIC CLAMP™ platform for use with Erlenmeyer flasks/test tube racks to instantly change between flask clamps of different sizes

Specifications:

Temperature range: Ambient +5 to 60°C (Increments of 0.1°C)
Temperature: ±0.25% uniforming, ±0.1% accuracy
Shaking speed range: 30 to 300 rpm (Increments of 1 rpm)
Shaking orbit: 19mm (3/4")
Dimensions: Platform: 9.5" x 11.5"/ 23.5cm x 29.2cm
Overall: 11" x 15.7" x 10.5" (lid open, height = 25")
28cm x 40cm x 27cm (lid open, height = 63cm)

MODEL	DESCRIPTION
H1001-M	Incu-Shaker™ Mini Shaking Incubator
H1001-MR	Magic Clamp™ Universal platform only
H1001-MR-500	Clamp for Magic Clamp platform, 500ml (max. 5)
H1001-MR-250	Clamp for Magic Clamp platform, 250ml (max. 8)
H1001-MR-125	Clamp for Magic Clamp platform, 125ml (max. 12)
H1001-MR-50	Clamp for Magic Clamp platform, 50ml
H1001-MR-1550	Tube rack for Magic Clamp platform, 20 x 50ml and 30 x 15ml conical tubes (max. 1)
H1001-P-500	Dedicated platform with 5 x 500ml*
H1001-P-250	Dedicated platform with 8 x 250ml*
H1001-P-125	Dedicated platform with 12 x 125ml*
H1001-P-MP	Dedicated platform, 4 x microplates (standard or deepwell)
H1001-P-SP	Spring rack platform, for uncommon vessels and containers

Erlenmeyer flask clamps attached

Vornado Mini Vortex Mixer

Powerful vortexing for tubes up to 50ml. Insta-Touch pressure activated operation. Mini sized, less than 4" wide.

Powerful is the best word to describe this mini vortexer. With a 4 mm orbit and fixed speed of 2800rpm, the Vornado instantly vortexes even the largest samples, including nearly full 50 ml tubes. Despite its powerful motor, Vornado has a footprint of less than 4"x4", allowing it to fit on even the most crowded bench.

Insta-Touch operation means that the motor is automatically activated with slight pressure on the center cup head. Operation is smooth, quiet and efficient. When pressure is removed, operation immediately ceases.

Vornado's unique head design prevents liquids from entering the housing, prolonging motor life. Available in four different cup head colors.

MODEL	DESCRIPTION
BV101-B	Vornado Mini Vortex Mixer for tubes up to 50ml – blue cup head
BV101-G	Vornado Mini Vortex Mixer for tubes up to 50ml – green cup head
BV101-P	Vornado Mini Vortex Mixer for tubes up to 50ml – purple cup head
BV101-R	Vornado Mini Vortex Mixer for tubes up to 50ml – red cup head

Mini Vortexer

Simple, touch start operation offers exceptional mixing performance with one hand. Low profile design and small footprint (only 4.3" wide) saves valuable space. When performing repetitive procedures, a low activation force helps prevent user fatigue.

Includes Mini Vortexer, 2 silicone caps, low voltage, double insulated power adapter (100-240 vac, 50/60 hz) with 4 interchangeable plugs. 5 year warranty.

► Made of ABS and silicone materials – resist most commonly used chemicals
► Platform and elastomer feet ensure unit stays stable during operation

Specifications:
Speed: 4,500 rpm
Orbit: 6mm
Capacity: Up to 50 mL tube
Weight: 2 lbs./0.9kg
Dimensions: 5.1" x 4.3" x 3" 13cm x 11cm x 7.5cm)

MODEL	DESCRIPTION
120567-GP	Mini Vortexer, grey/purple
120567-GB	Mini Vortexer, grey/blue
120567-B	Mini Vortexer, black

Shop online at www.braintreesci.com

Vortexer

Multi-purpose, maximum convenience! One mixing head does it all with this sleek, modern and compact design vortex mixer! Control switch with three operation selections (intermittent, off, continuous). Infinite position rotary speed control from Off up to approx. 3000 rpm. Made of durable, easy to clean ABS material and stable elastomer feet stabilize the unit and dampen vibration. 5 year warranty.

Specifications:
Speed range: 0 to 3000 rpm (shaking to vortexing)
Orbit: 3.7mm
Mixing Head Holding Capacity: Center pad area for hand held mixing; Assay plate x 1 (to be used with retention cords)
Horizontally mounted: 50ml conical tubes x 2 or 15ml conical tubes x 2 or 5ml tubes x 2 (mounted in same retention space as 15ml)
Vertically mounted: 1.5/2ml microfuge tubes x 4 or 0.5ml microfuge tubes x 6 or 0.2ml microfuge tubes (strip tubes) x 24
Weight 8.7 lbs./3.9kg
Dimensions: 6.7" x 7.5" x 7.8"/17.1cm x 19cm x 19.7cm

MODEL	DESCRIPTION
120209	Vortexer

Multi-Therm™ Temperature Controlled Vortexer

Cool – Heat – Shake

► Temperature control from 0° to 100°C
► Exchangeable blocks for tube sizes 0.2 to 50ml
► Precision contoured wells for uniform thermal transfer
► Two models: heat/cool or heat only

All popular tubes and plates are compatible, including as many as six 50ml tubes. Speed, time and temperature settings are continuously visible on LCD, showing both actual and selected values. Integral over-temperature control ensures long life, safety and sample integrity.

Specifications:
Temperature range (HC): Ambient 20° to 100°C
Temperature range (H): Ambient +5° to 100°C
Ramp rate: Heating: 5.0°C/min.; Cooling: 2.5°C/min. (HC only)
Temperature accuracy: ±1.0°C
Speed range: 200 to 1500 rpm, or "off"
Motion/orbit: Horizontally circular/2mm
Capacity: Per selected block
Dimensions: 8.25" x 11.5" x 8.25"/21cm x 29cm x 21cm

MODEL	DESCRIPTION
H5000-HC	MultiTherm Shaker with heating and cooling
H5000-H	MultiTherm Shaker with heating only

Blocks separately:

MODEL	DESCRIPTION
H5000-02	Block, 96 x 0.2ml or one PCR plate
H5000-05	Block, 54 x 0.5ml
H5000-CMB	Block, combination 15 x 0.5ml and 20 x 1.5ml
H5000-15	Block, 35 x 1.5ml
H5000-20	Block, 35 x 2ml
H5000-12*	Block, 24 x 12mm (200 to 1200 rpm/Ambient -10° to 100°C)
H5000-150*	Block, 12 x 15ml (200 to 750 rpm/Ambient -10° to 100°C)
H5000-500*	Block, 6 x 50ml (200 to 750 rpm/Ambient -10° to 100°C)

Note: The larger mass of this block results in a reduced speed and temperature range.

Benchmixer™

► Powerful motor for instant vortexing
► Q-Drive™ dynamic balance system
► Touch or continuous operation
► Variable speed control from 200 to 3200 rpm

BenchMixer™ sets the standard in vortex mixing. With advanced Q-Drive™ technology, BenchMixer™ provides smooth instant vortexing of even the largest sample sizes, including full 50ml tubes.

Unique counter balance system creates maximum vortexing action, while minimizing noise and excessive vibration.

Features include: "no-walk" suction feet, cold room/incubator compatibility and spill-proof electronic controls.

MODEL	DESCRIPTION
BV1000	BenchMixer Vortex Mixer
BV1000-FLAT	Optional 3" flat head
BV1000-COMBO	Optional combination head for tubes and microplates. Holds 66 tubes (38 x 1.5ml and 28x 0.5ml) or one microplate
BV1000-H15	Optional head for 12 x 1.5/2.0ml, horizontal
BV1000-H150	Optional head for 4 x 15ml, horizontal
BV1000-H500	Optional head for 2 x 50ml, horizontal

Benchmixer™ XL Multi-Tube Vortexer

Heavy-duty vortex mixer designed to facilitate hands-free mixing in tubes, flasks, vials or cylinders. Ideal for QuEChERS pesticide analysis method and is instantly adaptable to abroad range of vessels, racks and applications (horizontal or vertical). Oversized motor that delivers accurate, reproducible speeds with rattle-free operation and minimal vibration. Programmable pulsing function allows for time specific interval mixing, increasing agitation.7x12 inch platform accommodates a wide variety of standard, pre-drilled tube racks.

► Will perform unattended mixing for up to 100 hours
► Up to 2500rpm, a true vortex in every tube
► Pulsing program for interval mixing
► Fits almost any tube rack

Specifications:
Speed range: 500 -2500 rpm
Timer: 1 min. to 99 hr. 59 min.
Orbit: 3.6mm
Weight: 29 lbs./13kg
Dimensions: 15" x 9.2" x 16.5"/38.5cm x 23.5cm x 42cm

MODEL	DESCRIPTION
BV1010	Benchmixer XL Multi-Tube Vortexer
BV1010-00	Foam Sheet, no holes
BV1010-05	Tube Rack, 96 x 0.5ml (8mm)
BV1010-12	Tube Rack, 50 x 12mm
BV1010-13	Tube Rack, 50 x 13mm
BV1010-150	Tube Rack, 50 x 15ml (16.5mm)
BV1010-1520	Tube Rack, 50 x 1.5/2.0ml (10mm)
BV1010-25	Tube Rack, 15 x 25mm
BV1010-500	Tube Rack, 15 x 50ml (29mm)
BV1010-50HQ	Tube Rack for 7x50ml QuEChERs, horizontal,
BV1010-MP	Rack for up to 3 microplates
BV1010-MP02	Rack for 96 x 0.2ml tubes or strips (3 pack)

Roto-Mini™ Tube Rotators

Roto-Mini Tube Rotators provide a wide range of mixing capabilities including resuspension, protein binding, nucleic acid purification, histochemistry, hybridization, etc. Mixers include interchangeable tube holders for accomomodating all common tube sizes from 0.5ml to 50ml. and motion can be adjusted from vertical (end over end) mixing, to horizontal (rolling or hybridization style) mixing.

R2024

► Includes tube holders for common tube sizes
► Plus model features variable speed control. (5-70rpm) and advanced shaking/mixing modes: Mix (oscillating), Pause, Rock

Specifications:
Speed range: Roto-Mini 24rpm, Roto-Mini Plus 5-70rpm
Weight: 3 lbs./1.4kg
Dimensions: 10.8" x 6" x 6.5"/27.5cm x 15.2cm x 16.5cm

MODEL	DESCRIPTION
R2020	Roto-Mini Tube Rotator, Fixed Speed with tube holders
R2024	Roto-Mini Plus Rotator, Variable Speed with tube holders . . . . . .
R2020-PCR	Tube holder, 96 x 0.2ml, 12 x PCR strips or one PCR plate*
2020-RP	Mini Rocking Platform with rubber mat, 4.5" x 3"*

Model R2024 only
More Tube Holders Online

Roto-Therm™ Incubated Rotators

Incubated rotating mixers for applications including resuspension, protein binding, nucleic acid purification, histochemistry, hybridization, etc. Mixers include interchangeable tube holders for accomomodating all common tube sizes from 0.5ml to 50ml. and motion can be adjusted from vertical (end over end) mixing, to horizontal (rolling or hybridization style) mixing.

H2024

Digitally programmable to maintain chamber temperatures of ambient +5°C to 60°C and include "in-lab" calibration function for ensuring accurate temperature control.

► Rotated mixing with temperature control
► Includes tube holders for common tube sizes
► Plus model features variable speed control. (5-70rpm) and advanced shaking/mixing modes: Mix (oscillating), Pause, Rock

Specifications:
Speed range: Roto-Therm 24rpm, Roto-Therm Plus 5-70rpm
Temperature range: Ambient +5 to 60°C
Weight: Roto-Therm 9 lbs./4kg, Roto-Therm Plus 10 lbs./4.5kg
Dimensions: 11.6" x 8.5" x 9"/29.5cm x 21.6cm x 22.9cm

MODEL	DESCRIPTION
H2020	Roto-Therm Incubated Rotator with tube holders
H2024	Roto-Therm Plus Incubated Rotator with tube holders
R2020-PCR	Tube holder, 96 x 0.2ml, 12 x PCR strips or one PCR plate*
2020-RP	Mini Rocking Platform with rubber mat, 4.5" x 3"*

Model H2024 only
More Tube Holders Online

Other models and capacities available online or by email. Please visit www.braintreesci.com or email info@braintreesci.com for details and pricing.

Benchrocker

With adjustable speeds and tilt angles, user can set both parameters to match vessel size and volume of liquid being mixed. Adjustable to match vessel size and volume of liquid being mixed. Rocking speed and tilt angle are adjustable in seconds. At low speeds and minimal tilt angles, both models (2D for "see-saw" motion or 3D for "gyratory" motion) provide a gentle wave effect for non-foaming mixing. Higher speeds and more extreme tilt angles produce aggressive agitation for vigorous mixing.

Both accept stackable platforms (2.75" clearance). Platform mats are autoclavable. Maintenance free brushless motors. Safe for use in cold rooms and incubators.

MODEL	DESCRIPTION
BR-2000	BenchRocker 2D variable speed rocker with flat mat platform
BR-2000-SK	Optional stacking platform (14"x12") with flat mat
BR-2000-SK-D	Optional stacking platform (12"x12") with dimpled mat
BR-2000-B0718	LaBungee™ elastic tie downs with hooks, pack of 4

Mini BlotBoy™ and BlotBoy™ 3-Dimensional Rockers

► Optimized speed and tilt for gel blotting, washing and staining

► Tri-directional motion for thorough, gentle mixing in gel trays, boxes and other flat vessels

► Stacking platforms available

► Incubator and cold room safe

Compact platform rockers provide 3-dimensional motion for all blot-related applications. Both come standard with autoclavable flat mats, can accept stackable platforms and handle loads up to 2kg.

Specifications:
Speed: 12 rpm (250V model is 10 rpm)
Tilt Angle: ±8°
Load Capacity: 1.6 kg / 3.5 lbs.
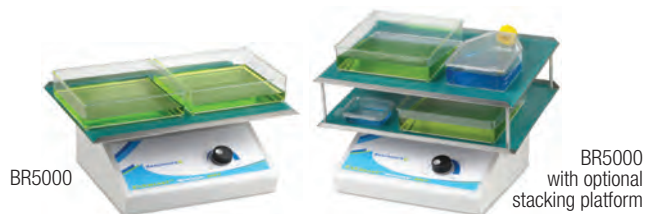**Dimensions:** Mini BlotBoy: 10.5" x 7.5" x 8"
BlotBoy: 12" x 12" x 8.3"

MODEL	DESCRIPTION
B3D1308	BlotBoy™ 12" x 12" platform with flat mat, 115V
B3D-1008	Mini BlotBoy™ 10.5" x 7.5" platform with flat mat, 115V
B3D-SK	Stacking Platform, flat mat, 10.5" x 7.5"
B3D-FLAT	Flat Mat, 10.5" x 7.5"
B3D-DIMP	Dimpled Mat, 10.5" x 7.5"

45
Y E A R S
1980-2025

Braintree Scientific

Everlast™ Rocker with Variable Speed and Flat Mat

BR5000

BR5000 with optional stacking platform

Everlast 247 Rocker is built to last. Twenty four hours a day, seven days a week – no problem! Powerful motor and heavy-duty drive system remain reliable and consistent, even under constant usage in a cold room (min. 0°C) or incubator (max. 65°C). Rocking speed and tilt angle can easily be adjusted to vary between gentle and aggressive agitation. Both standard platform and optional stacking platform are constructed of stainless steel, preventing against any rusting or corrosion. 5 year warranty.

► Extra-large 16 x 12 in. work surface
► Stainless-steel platform, dual platform accessory doubles work surface
► Cold room and incubator safe

Specifications:
Speed: Variable; 3 to 80 rpm
Tilt angle: Variable; 0° to +/-20°
Load capacity: 16 lbs./5.45kg
Operating temperature range: +0°C to +65°C
Weight: 20 lbs./9kg
Platform dimensions: 16" x 12"/40.5cm x 30cm
Dimensions: 16" x 13" x 6"/40cm x 33cm x 15.25cm

MODEL	DESCRIPTION
BR5000	Everlast Rocker with variable speed and flat mat
BR5000-SK	Stacking Platform with flat mat 4.5" clearance

MPS 1001 Mini Plate Spinner

QMPS 1001 Mini Plate Spinner is the first centrifuge designed specifically for quick and easy centrifugation of samples in PCR microplates. The unique design allows for a compact centrifuge that has an extremely small footprint. Two standard microplates are loaded through a slot in the top of the unit. Sealed microplates are loaded vertically. Surface tension keeps samples in place so there is no danger of spilling. Upon closing the lid of the unit, the rotor quickly accelerates the microplates to 2,500 rpm. Opening the lid engages the brake and brings the rotor to a stop. For temperature-sensitive applications, the Mini Plate Spinner may be used in a cold room.

► Capacity for two standard plates
► Top loading design
► Exceptionally small footprint
► Starts and stops in seconds

Specifications:
Rotor speed: 2500 rpm
G Force: 500 x g
Capacity: 2 x 96- or 384-well PCR microplates
Temperature: 5°C to 40°C (up to 80% RH at 31°C, decreasing linearly to 50% RH at 40°C)

MODEL	DESCRIPTION
C1001	MPS 1001 Mini Plate Spinner, 120V0

PlateFuge™ Microplate MicroCentrifuge

► Quickly spins down droplets in PCR plates
► Unique rotor design prevents sample spillage
► 50% smaller than traditional centrifuges
► Accepts all popular PCR plates (skirted, semi and non) and most microtiter plates

Features swing out rotor capable of securing two microplates. Easily accessible rotor chamber includes two plate carriers that rest at a 75° angle allowing plates to be inserted confidently without sealing tapes or caps. Upon closing lid, rotor accelerates and centrifugal force "swings" plates into a horizontal position. Stops in about 4 seconds when lid is opened.

Specifications:
Speed: 2550 rpm / 600 xg
Capacity: 2 PCR plates, 4 stacked skirted PCR plates, 2 microtiter plates or 24 0.2ml PCR strips
Dimensions: 9.2" x 10.2" x 7.75"/23cm x 26cm x 19.7cm

MODEL	DESCRIPTION
C2000	PlateFuge™ MicroCentrifuge with rotor and plate carriers
C2000-A02	Tube Adapter, holds 96 0.2ml tubes or 8 and 12 position PCR strips, 2 pack
C2000-DWMP	Optional Rotor with carriers for deep well plates (1500rpm)

MyFuge Mini

► Includes eight position microtube rotor
► Storage compartment for PCR rotor
► Starts and stops in just seconds

Second rotor for 0.2ml PCR tubes and strips is included and stored with rotor removal key in a convenient compartment on bottom of the centrifuge. Includes microtube rotor, PCR rotor, 0.5ml and 0.2ml adapter

Specifications:
Speed: 6,000 rpm/2,000 xg, quick acceleration/deceleration
Capacity: 8 x 1.5/2ml tubes, 16 x 0.2ml PCR tubes, 2 x 0.2ml PCR strips
Dimensions: 4.5" x 5.9" x 4.5"/11.4cm x 15cm x 11cm

MODEL	DESCRIPTION
C1008-B	MyFUGE Mini Centrifuge, blue lid
C1008-C	MyFUGE Mini Centrifuge, clear lid
C1008-G	MyFUGE Mini Centrifuge, neon green lid
C1008-P	MyFUGE Mini Centrifuge, purple lid
C1008-R	MyFUGE Mini Centrifuge, red lid

MyFuge 12

► COMBI-Rotor™ can run 12 microtubes and 4 PCR strips simultaneously
► Twice the capacity of traditional mini centrifuges
► Starts and stops with opening/closing of lid
► Eliminates the need to change rotors when switching between microtubes and PCR strips

Specifications:
Speed: 5,500 rpm/2,000 xg, quick acceleration/deceleration
Capacity: 12 x 1.5/2ml tubes, 32 x 0.2ml PCR tubes 4 x PCR strips (8 x 0.2ml)
Dimensions: 5.5" x 7.9" x 4.4"/14 cm x 20cm x 11.2cm

MODEL	DESCRIPTION
C1012	MyFUGE Mini Centrifuge, with COMBI-Rotor for microtubes and PCR strips/tubes
C1008-A5-6	Adapters, 0.5ml, pack of 6
C1008-A2-6	Adapters, 0.2ml, pack of 6

Spectrafuge 24D Digital Microcentrifuge

► Complete with easy access, 24 x 1.5/2ml rotor
► Set and view speed in rpm or g-force
► Digital set/display of parameters
► Quiet and cool running

Innovative rotor places tubes on a plateau, where user can easily grip their tops. Powerful brushless motor quickly accelerates rotor to a maximum speed of 13,300 rpm/16,000 x g. Controls are simple, consisting of only two knobs. Pressing knob toggles display between rpm and rcf. Last run settings remain in memory allowing for repetitive centrifuging without resetting of parameters. Available in five accent colors.

Specifications:
Speed range: 500 rpm to 13,300 rpm
Maximum RCF: 16,300 x g
Maximum capacity: 24 x 1.5/2ml
Timer: 0-30 minutes or continuous "Quick" button for momentary operation
Dimensions: 9.25" x 11.5" x 8.5"/23.5cm x 29.3cm x 21.6cm

MODEL	DESCRIPTION
C2400-B	Spectrafuge 24D blue accents
C2400-T	Spectrafuge 24D teal accents
C2400-P	Spectrafuge 24D purple accents
C2400-R	Spectrafuge 24D red accents
C1205	Adapters for 0.5/0.6ml tubes, pack of 8
C1206	Tube adapters for 0.4/0.25ml tubes, pack of 8
C1222	Tube adapters for 0.2ml, pack of 8

Mag-Fuge® MFC Multi-Function High Speed Centrifuge Bundle

Spin down samples from 0.2 ml to 5ml with multiple rotors and tube adapters included. Perfect mix of speed (12,500 rpm) and size (down to 0.2 ml) for PCR, microfilter cell separation, and HPLC protocols. Switch rotors without tools to work more efficiently. Small footprint and slim profile. Includes high performance magnetic stirrer adapter to stir samples of 3L or greater.

Bundle includes: MagFuge unit, 3 rotors (5 mL tube rotor, 1.5/2.0 mL tube rotor, magnetic stirrer rotor), 12 tube adapters each for 0.2ml and 0.5ml tubes, 2 silicone mats for stirrer adapter, 2 rare-earth PTFE coated stir bars, 1 low voltage, double insulated power adapter with 4 cord sets.

Specifications:
Speed: 12,500 rpm
Dimensions: 9.2" x 7.3" x 4.7"/23.5cm x 18.5cm x12 cm

MODEL	DESCRIPTION
120581	Mag-Fuge MFC High Speed Centrifuge Bundle, grey/purple
120582	Mag-Fuge MFC High Speed Centrifuge Bundle, grey/blue

Other models and capacities available online or by email. Please visit www.braintreesci.com or email info@braintreesci.com for details and pricing.

Sprout® Plus Mini Centrifuge

Easy to use – tool-free SnapSpin rotors and quick-spin options make the centrifuges fast and easy to use.

Functionally designed locking lid fits in the palm of a hand for easy repeat opening and quick tube extraction with one hand. Large lid size accommodates longer and skirted tubes and tall tube lids.

► Quickly stops spinning when powered off or when lid is opened
► Weighted rubberized base eliminates potential movement and dampens vibration and noise

Includes Sprout Plus Mini Centrifuge, 6-place 1.5/2.0ml tube rotor and 16-place 0.2 mL tube rotor (single or 2x8 strip), 6 each 0.2ml and 0.5ml tube adapters, 4 lid o-rings, storage case for rotors and adapters, tube rack, low voltage (100-240 vac, 50/60 hz) double insulated power adapter with 4 interchangeable plugs.

Specifications:
Speed range: Approx. 6,000 rpm (fully loaded)
Maximum RCF: 2000 x g
Weight: 1.60 lb./0.73kg
Dimensions: 6" x 5" x 4.3"/15.3cm x 12.8cm x 10.9cm

MODEL	DESCRIPTION
HS120610	Sprout Plus Portable Mini Centrifuge, green
HS120611	Sprout Plus Portable Mini Centrifuge, blue

Sprout® Plus Portable Mini Centrifuge Kit

Spin samples on-the-go with this Portable Centrifuge Kit. It's a convenient way to spin down and prepare samples outside of a conventional laboratory to prevent deterioration. 5 year warranty.

Kit includes: Sprout Plus Mini Centrifuge, 6 place 1.5/2.0ml and 16 place 0.2 ml (singles or 2x8 strip) SnapSpin tube rotors, 6 each 0.2ml and 0.5ml tube adapters, 40-rings, storage case for rotors and adapters, 16 place tube rack, low voltage, double insulated power adapter with 4 interchangeable plugs. DuraPorter Transport Box with 16 place tube rack insert, kit dividers, Sprout cradle, portable 12V car adapter.

Specifications:
Speed range: Approx. 6,000 rpm (fully loaded)
Maximum RCF: 2000 x g
Weight: 1.60 lb./0.73kg
Dimensions: 6" x 5" x 4.3"/15.3cm x 12.8cm x 10.9cm

MODEL	DESCRIPTION
HS120568	Sprout Plus Portable Mini Centrifuge Kit
HS120569	Portable Centrifuge Transport Case with Inserts
HS120570	12-Volt Sprout Power Adapter

All prices subject to change without notice.

Gusto® High-Speed Mini Centrifuge

Compact centrifuge is ideal for PCR, microfilter cell separation, clinical and diagnostic applications, and HPLC protocols. Made of durable ABS with UV-resistant coating.

Includes Gusto® High-Speed Mini-Centrifuge, 12-place 1.5/2.0ml tube rotor, 32-Place 0.2ml tube rotor (singles, or 4 x 8 strip), 12 each tube adapters 0.2ml and 0.5ml, low voltage, double insulated, power adapter 110-240V 50/60 Hz, with 4 interchangeable cord types

► Brush-less motor for quiet operation and low vibration
► Quick-spin button for momentary spin requirements, press and hold to operate, release to end spin cycle
► Tool-free rotor exchange
► Sample imbalance, tilt auto-shut off and interlock lid prevents opening while rotor is turning

Specifications:
Speed range: 500 to 12,500 rpm
Timer range: 1 min. to 99 hr. 59 min.
RCF: 15 - 9, 783 x g
Dimensions: 8" x 6.7" x 4.5"/20.3cm x 17.1cm x 11.4 cm

MODEL	DESCRIPTION
HS10050	Gusto High Speed Mini Centrifuge

MC-24™ Touch High Speed Microcentrifuge with Combi-Rotor

Touch-screen microcentrifuge offers high speed (up to 13,500 rpm/16,800 xg) and a unique Combi-Rotor™ with lid that accepts both standard microtubes (1.5/2.0ml) and PCR tubes/strips (0.2ml).

Large, color touch screen shows actual speed (in rpm or rcf) and set and remaining time. Up to 9 speed/time profiles can be stored in memory.

Combi-Rotor™ accepts 24x1.5/2.0ml tubes, 2 strips of 0.2ml tubes (16×0.2ml), and up to 12x spin column kits without requiring separate adapters. Optional 8 place rotor for 5ml and cryo tubes.

► Touch screen control
► Unique air-flow system keeps samples cool, even during extended runs by air flow system that moves air evenly/quietly throughout the chamber
► Combi-Rotor accepts tubes and PCR strips

Specifications:
Speed range: 200 - 13500rpm (100 to 16800xg)
Timer range: 30 sec. to 99 min./cont.
Increment: 100rpm/100rcf
Weight: 14 lbs./6.4kg
Dimensions: 9" x 12" x 7.75"/23cm x 30.5cm x 19.7cm

MODEL	DESCRIPTION
C2417	MC-24 Touch High Speed Microcentrifuge with Combi-Rotor
C1008-A2-6	0.2ml Adapter Pack, 6/pk
C2417-R5	Optional 8 x 5ml Rotor
C2417-R5-ADP2	2ml Cryovial adapters for C2417-R5 rotor, 8/pk

Hot Start Taq DNA Polymerase and Master Mix

► Exceptional sensitivity for low copy PCR
► Ideal for multiplex PCR and amplification of GC-rich DNA
► Curis Taq Polymerase
► Buffer optimized for fast cycling and reproducibility

Engineered for controlled polymerase activity, Accuris Hot Start Taq is bound with a monoclonal antibody that blocks enzyme activity allowing reactions to be set up at room temperature without the risk of non-specific amplification. When samples are ready, reaction mixture is heated to 95°C to denature antibody and initiate reaction. Hot Start Taq is provided with a 5X buffer, or in a ready to use 2X Master Mix. Master Mix can be ordered with or without a red gel loading dye.

Gel image shows exceptional sensitivity of Accuris™ Hot Start Taq Polymerase with 405bp plant mitochondrial DNA. Amplification was performed with decreasing amounts of starting material, from 500ng to 31.25ng.

MODEL	DESCRIPTION	VOLUME
PR1000-HS-500	Taq DNA Polymerase	500u (5u/µL)
PR1000-HS-1000	Taq DNA Polymerase	1,000u (5u/µL)
PR1000-HS-6000	Taq DNA Polymerase	6,000u (5u/µL)
PR1001-HS-200	2x Taq Master Mix	200 x 50µL Reactions
PR1001-HS-1000	2x Taq Master Mix	1,000 x 50µL Reactions
PR1001-HSR-200	2x Taq Red Master Mix	200 x 50µL Reactions
PR1001-HSR-1000	2x Taq Red Master Mix	1,000 x 50µL Reactions

SmartCheck™ DNA Ladders

SmartCheck DNA Ladders are designed for fast and accurate DNA sizing in agarose gels.

► Three sizes - 50bp, 100bp and 1kb
► Ready to use formulation with loading buffer and tracking dyes
► Higher intensity reference bands
► Each tube is suitable for 500 lanes (5µl/lane)
► Ultra-pure production allows for economical ambient shipping
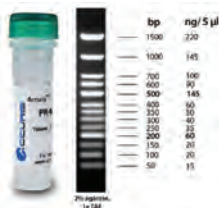
MODEL	DESCRIPTION
PR4005-500	SmartCheck DNA Ladder, 50bp, 500 lanes
PR4010-500	SmartCheck DNA Ladder, 100bp, 500 lanes
PR4100-500	SmartCheck DNA Ladder, 1kb- 500 lanes

SmartGlow™ Safe Nucleic Acid Stain

A safe alternative to ethidium bromide for visualization of DNA in agarose gels.

► Excitation by UV or blue light
► Non-mutagenic, environmentally safe
► No special disposal methods required
► 20,000X Prestain or 6X Loading Dye

MODEL	DESCRIPTION
E4500-LD	SmartGlow Loading Dye with Safe Green Stain, 1ml
E4500-PS	SmartGlow Safe Green Prestain, 1ml

Accuris qMAX™ Probe One-Step RT qPCR Kit

Allows for highly sensitive real time RT qPCR assays to be performed directly from RNA templates. Optimized buffer includes a powerful RNase inhibitor and extremely thermostable MMLV-derived transcriptase for robust first strand cDNA synthesis. Requires little, if any, optimization. Delivers early quantification cycle values (Ct) and broad range detection for high sensitivity, speed, reliability and reproducibility.

MODEL	DESCRIPTION	REACTIONS
PR2121-N-100	qMAX Probe One-Step RT-qPCR Kit, No Rox	100
PR2121-N-500	qMAX Probe One-Step RT-qPCR Kit, No Rox	500
PR2121-N-1000	qMAX Probe One-Step RT-qPCR Kit, No Rox	1,000
PR2121-L-100	qMAX Probe One-Step RT-qPCR Kit, Low Rox	100
PR2121-L-500	qMAX Probe One-Step RT-qPCR Kit, Low Rox	500
PR2121-L-1000	qMAX Probe One-Step RT-qPCR Kit, Low Rox	1,000
PR2121-H-100	qMAX Probe One-Step RT-qPCR Kit, High Rox	100
PR2121-H-500	qMAX Probe One-Step RT-qPCR Kit, High Rox	500
PR2121-H-1000	qMAX Probe One-Step RT-qPCR Kit, High Rox	1,000

QuickSilver™ Powdered Buffer Packs

QuickSilver Powdered Buffer Packs offer the convenience to make fresh 1X buffer on demand.

► Premeasured pouches with quick dissolving powder, each pouch makes 1L of 1X buffer - just add water
► No pH adjustment needed
► Long shelf life, guaranteed quality and consistency

MODEL	DESCRIPTION
EB1000	QuickSilver TAE Buffer Powder, 100 pouches
EB1100	QuickSilver Tris-Glycine-SDS Buffer Powder, 50 pouches
EB1101	QuickSilver Tris-MES-SDS Buffer Powder, 50 pouches
EB1102	QuickSilver Tris-MOPS-SDS Buffer Powder, 50 pouches
EB1200	QuickSilver PBS Buffer Powder, 100 pouches
EB1201	QuickSilver PBS-T Buffer Powder, 100 pouches
EB1202	QuickSilver TBS Buffer Powder, 100 pouches
EB1203	QuickSilver TBS-T Buffer Powder, 100 pouches

Benchmark Agarose LE

Highly purified general purpose agarose, refined using an advanced process that excludes the use of organic solvents.

► Enhanced resolution and clarity
► Low EEO/increased electrophoretic mobility
► RNase, DNase and Protease free
► Green choice - free from organic solvents

MODEL	DESCRIPTION
A-LE-1700	Benchmark Agarose LE, 25g
A-LE-1701	Benchmark Agarose LE, 100g
A-LE-1705	Benchmark Agarose LE, 500g

Shop online at www.braintreesci.com

Pearl® Adjustable Volume Pipettes

Sleek ergonomic design and reduced plunger pressure help reduce chance of repetitive strain injury. Each pipette is tested in accordance with standards and a calibration certificate is supplied. Single channel pipettes come with separate tip ejector.

Precision metal components for both shaft and barrel ensure reliable performance and long life. Color coded and labeled with volume range (both top and side for quick visual confirmation). Internal metal parts for increased accuracy and calibration stability. Autoclavable.

► Large digital 3-position volume display
► Easy volume adjustment with locking tab to prevent accidental change
► Universal tip cone, finger hook

MODEL	DESCRIPTION
120097	Pearl Adjustable Volume Pipette, 0.1-2 µL, green
120098	Pearl Adjustable Volume Pipette, 0.5-10 µL, light blue
120099	Pearl Adjustable Volume Pipette, 2-20 µL, light purple
120100	Pearl Adjustable Volume Pipette, 5-50 µL, orange
120101	Pearl Adjustable Volume Pipette, 10-100 µL, blue
120102	Pearl Adjustable Volume Pipette, 20-200 µL, yellow
120103	Pearl Adjustable Volume Pipette, 30-300 µL, purple
120104	Pearl Adjustable Volume Pipette, 100-1000 µL, blue
120105	Pearl Adjustable Volume Pipette, 500-5000 µL, pink
120106	Pearl Adjustable Volume Pipette, 1000-10000 µL, red
120215	Pearl Adjustable Volume 8-Channel Pipette, 5-50 µL, orange
120216	Pearl Adjustable Volume 8-Channel Pipette, 30-300 µL, purple
120217	Pearl Adjustable Volume 12-Channel Pipette, 5-50 µL, orange
120218	Pearl Adjustable Volume 12-Channel Pipette, 30-300 µL, purple

Halo™ Adjustable Pipettors

Halo Pipettors reduce risk of repetitive stress injury and hand fatigue associated with daily pipetting. Balanced and natural in user's hand. Recessed ejector button, and cushioned, shock absorbing stop, ergonomics of tip ejection relieve stress on thumb and joints. Available in 10 volumes. Compatible with universal tips.

Free custom lazer engraving with purchase of starter kit - email for details.

Custom laser engraved

► 4 digit micrometer for volume display and DriftGuard™ protection
► 1250µL model for extended length tips
► User-enabled calibration port

MODEL	DESCRIPTION
H6800-SK	Halo Pipettor Starter Kit includes carousel stand and 4 pipettes (10µL, 20µL, 200µL and 1250µL)
H6800-2	Halo Single Channel Adjustable Pipettor, 0.1-2µL
H6800-10	Halo Single Channel Adjustable Pipettor, 1-10µL, black top
H6800-20	Halo Single Channel Adjustable Pipettor, 2-20µL, yellow top
H6800-50	Halo Single Channel Adjustable Pipettor, 5-50µL, yellow top
H6800-100	Halo Single Channel Adjustable Pipettor, 10-100µL, yellow top
H6800-200	Halo Single Channel Adjustable Pipettor, 20-200µL, yellow top
H6800-1M	Halo Single Channel Adjustable Pipettor, 100-1000µL, blue top
H6800-1MXL	Halo Single Channel Adjustable Pipettor, 200-1250µL, blue top
H6800-5M	Halo Single Channel Adjustable Pipettor, 1-5ml, red top
H6800-10M	Halo Single Channel Adjustable Pipettor, 1-10ml, red top
H6505	5ml Pipette Tips for Halo Pipettors, 100/pk
H6510	10ml Pipette Tips for Halo Pipettors, 100/pk
H6800-CR	Halo Pipette 6-Place Carousel

NextPette™ Variable Volume Pipettes

NextPette's materials and components minimize weight and ensure durability and long service life. Internal components include precision plungers made of stainless steel (1ul, 10ul, 5000, and 10,000µL models) or ceramic (20ul, 200ul, and 1000ul models) and all use durable PTFE seals. Pipettors are easy to disassemble, and seals are easy to replace. Includes silicone lubricant. Recalibration can be done in lab - no tools required.

Volume display is located on side of pipettor facing user – does not require a second hand to rotate pipettor 180° to observe display. Asymetrical plunger button can be rotated to match comfort preference of user – button is freely adjustable to rotate continuously between wide setting or more narrow (thumb shaped) contour.

Entire pipettor is autoclavable at 121°C and resistant to UV exposure. All pipettes are factory calibrated in accordance with ISO 8655 standards, and include a factory calibration certificate.

► One handed volume adjustment
► Convenient volume lock
► Easily visible, 4 digit display
► Ergonomic, thumb shaped plunger button

MODEL	DESCRIPTION
P7700-1	NextPette Variable Volume Pipette, 0.1-1.0 µl
P7700-10	NextPette Variable Volume Pipette, 0.5-10 µl
P7700-20	NextPette Variable Volume Pipette, 2-20 µ
P7700-100	NextPette Variable Volume Pipette, 10-100 µl
P7700-200	NextPette Variable Volume Pipette, 20-200 µl
P7700-1000	NextPette Variable Volume Pipette, 100-1000 µl
P7700-5M	NextPette Variable Volume Pipette, 0.5ml-5ml
P7700-10M	NextPette Variable Volume Pipette, 1ml-10ml
P7700-CR	NextPette Carousel Stand, holds 6 NextPette pipettes
P7700-T5M	5ml Pipette Tips, 100/pk
P7700-T10M	10ml Pipette Tips, 100/pk
P7700-S1	NextPette Starter Pack 1 includes carousel stand and 4 pipettes (0.5-10 µl, 2-20 µl, 20-200 µl, 100-1000 µl)
P7700-S2	NextPette Starter Pack 2 includes carousel stand and 4 pipettes (20-200 µl, 100-1000, 0.5ml-5ml, 1ml-10ml)

ProPette™ Electronic Pipette Controller

ProPette™ Controllers are lightweight (only 6.3 oz./170g) and designed to fit comfortably in either hand. The natural feel of the ergonomic body design, computer balanced weight distribution and low pressure fingertip control buttons combine to provide a more comfortable pipetting experience. Includes Quickstand™ retractable stand which allows the instrument to be set down on the bench without risk of contamination.

► QuickStand retractable stand
► Variable speed control for pipettes from 1ml to 100ml
► Cordless and rechargeable with 9 hours of continuous operation

MODEL	DESCRIPTION
P6080	ProPette XL Pipette Controller with Charger
P6080-BA	Replacement Battery
P6080-FI	Replacement Filters (5/pk)

ProPette™ Manual Pipette Controller

High precision manual pipette controller that is always ready to use. One squeeze of its large rubber filling bulb to start pipetting–no wires, tubing or battery to recharge! Begin aspirating by touching the EZ-Flow™ lever. It precisely controls filling speed, based on how gently (or firmly) the lever is pressed. Built-in filter protects controller from liquid penetration. Separate button provides a positive blow-out function when required. Accepts 0.1 ml to 100ml pipettes. Silicone "chuck" adapter is flexible, autoclavable and accepts all types of serological, "blow-out", "to deliver," glass and plastic pipettes.

MODEL	DESCRIPTION
P6420	ProPette Manual Pipette Controller with filter

Pipette Checkit® Go

Disposable cartridge instantly checks accuracy of liquid handlers and multi-channel pipettes. Measures the dispensed volumes of up to 8 channels simultaneously. It is the size of a well plate, so users can use it in a robot, on a lab bench, or anywhere. Accuracy is checked in under 10 seconds. Engineered for liquid handling robots or multi-channel pipettes. Made in USA.

MODEL	DESCRIPTION	QTY/PK
CK8P2	Checkit Go for 2uL test.	6/pk
CK8V5	Checkit Go for 5uL test.	6/pk
CK8J10	Checkit Go for 10uL test.	6/pk
CK8K20	Checkit Go for 20uL test.	6/pk
CK8C50	Checkit Go for 50uL test.	6/pk

Serological Pipettes

MTC Bio serological pipettes are made from virgin polystyrene in a Class 100,000 cleanroom facility, under ISO 13485. Available in six volumes (1, 2, 5, 10, 25, and 50ml), they are sterilized via E-beam and individually packaged peel pouches. All sizes have vivid black, positive and negative graduations and are color-coded for easy identification.

► Sterile, individually wrapped
► Cotton plugged
► Ascending & descending graduations
► Standardized color coding
► Paper/plastic packaging

MODEL	DESCRIPTION	QTY/PK
P8270-01	Serological Pipettes, 1mL, sterile, yellow coded, graduated, individually wrapped, 500/cs.	500
P8270-02	Serological Pipettes, 2mL, sterile, green coded, graduated, individually wrapped, 500/cs	500
P8270-05	Serological Pipettes, 5mL, sterile, blue coded, graduated, individually wrapped, 200/cs	200
P8270-10	Serological Pipettes, 10mL, sterile, purple coded, graduated, individually wrapped, 200/cs	200
P8270-25	Serological Pipettes, 25mL, sterile, red coded, graduated, individually wrapped, 150/cs	150
P8270-50	Serological Pipettes, 50mL, sterile, black coded, graduated, individually wrapped, 150/cs	150

nUVaClean™ UV Pipette Carousel

Destroys 99% of bacteria, viruses and mycoplasma

The only pipette rack that organizes and protects six pipettes and destroys greater than 99% of unwanted contamination and DNA using a germicidal 254nm UV-C lamp. Destroys unwanted microbiological contaminants and prevents cross-contamination in PCR and other sensitive procedures. Place single-channel pipettes of any range or brand in nUVaClean™ and press "start" button to begin auto-decon cycle. After 28 minutes nUVaClean will power down automatically, delivering up to 6 pipettes clean and ready for use. Fits virtually any pipette, compact 6.5" (17cm) footprint.

MODEL	DESCRIPTION
P5590	nUVaClean UV Pipette Carousel

Bio-Wand Personal UV Sanitizer

Uses UV light (265-280nm) to disinfect any object/surface. One minute standard or more intense three-minute cleaning cycle. Hold light 1-2" from surface and move slowly over target area for 5-10 seconds to ensure optimum exposure. Provides 2 hours of operating time.

Includes USB-C cable for charging/portability. Kills up to 99% of bacteria and viruses, destroys DNA and RNA.

MODEL	DESCRIPTION
U1001-W	Bio-Wand Personal UV Sanitizer

Solution Reservoirs

For multi-channel pipetting

► Graduated* polystyrene
► Sharp "V" bottoms
► Pouring spout on all 4 corners
► Sterile and disposable

Designed for use with all multichannel pipettes. Standard 4 channel, 8 channel, 12 channel and various special purpose pipettes are all compatible with these disposable polystyrene reservoirs. To facilitate easy, dripless pour-off of unused reagents and solutions, all versions have indented "spouts" in each corner. Bottoms are formed with a sharply tapered "V" shape to minimize waste and reagent consumption. Packed in environmentally friendly packaging.

Graduations on 50ml reservoirs: 5, 10, 25, 50ml . Graduations on 25ml reservoirs: 15, 25ml

MODEL	DIMENSION	CAPACITY	QTY/PK
P8025-B	Solution Reservoirs, bulk pack	25ml	100
P8025-1S	Solution Reservoirs, sterile, individually wrapped	25ml	100
P8025-5S	Solution Reservoir, 5 per sterile bag	25ml	200
P8050-B	Solution Reservoirs, bulk pack	50ml	100
P8050-1S	Solution Reservoirs, sterile, individually wrapped	50ml	100
P8050-5S	Solution Reservoir, 5 per sterile bag	50ml	200
P8051-B	8PLUS4™ Divided Reservoir, non-sterile, bulk pack	50ml	100
P8051-1S	8PLUS4™ Divided Reservoir, sterile, inividually wrapped	50ml	100
P8051-5S	8PLUS4™ Divided Reservoir, sterile, 5/sterile bag	50ml	200

LabSand®

Easy collection of rodent urine samples

▶ Suitable for testing all parameters
▶ Clean, uncontaminated samples
▶ Reduce animal stress
▶ Non-invasive, easy to use
▶ 100% natural

LabSand® is a revolutionary biodegradable hydrophobic sand that has a natural non-toxic urine-repelling coating. Use it to quickly collect urine samples from laboratory rodents without resorting to metabolic caging protocols or invasive procedures. To use, simply spread LabSand® onto a clean surface or substitute as cage bedding in home cage and let mice, rats, hamsters, gerbils, etc. roam freely and urinate spontaneously. Urine stays on top of LabSand® and can be easily collected with a pipette, or sampled directly with a urine test strip. Depending upon species, hydration status, and sensitivity of analyses, 30-60 minutes is usually sufficient for collection of a STAT urine sample, and 1-3 hours for a more robust quantitative collection. Dispose used LabSand® with laboratory waste.

MODEL	DESCRIPTION
LABSAND-3PK	Urine Sample Collection Sand, 3/pk
LABSAND-CS	Urine Sample Collection Sand, six 3/pks

Tecniplast® Metabolic Cage Systems

Meticulously engineered cages feature a unique funnel and cone design that effectively separates feces and urine into tubes outside the cage. No urine washover and no chance for urine to enter the feces tube, so separation is immediate and complete. For untainted and reliable samples. All cage parts and stands are autoclavable. Replacement parts available.

▶ **Cover** - Large, vented, keeps animal securely in cage. Can be removed for easy access to animal
▶ **Upper Chamber** - Made of transparent PC. Surface is smooth, gnaw-proof, noiseless. Cleans with warm soapy water or detergent solution
▶ **Feeder Chamber** - Located outside cage. Size discourages rodent from nesting or sleeping inside
▶ **Feed Drawer** - PC drawer slides out for easy filling without disturbing animal. Ideal for slurries, liquids or powders. Not designed for food in pellet form. Rear portion helps to catch spilled food to prevent contamination of feces
▶ **Feces Collection Tube** - Made of non-wetting PMP. Pellets roll down sides of funnel to be collected in tube. Unlocks with single twist from outside of cage without disturbing animal
▶ **Urine Collection Tube PMP** - Graduated in cubic centimeters. Unlocks from outside cage without disturbing animal. Can be cooled with ice bath
▶ **Lower Chamber PC** - Can be removed without disturbing animal. Cleans with warm soapy water or detergent solution
▶ **Stand - SS** stand or rack must be used with any rodent metabolic cage. Stand supports one cage and provides easy access to all parts. 12-cage racks and refrigerated collection racks are also available. All stands and racks are sold separately

▶ **Collection Funnel and Separating Cone** - Unique design and non-wetting PMP ensure immediate, complete separation of feces and urine
▶ **Support Grid** - SS grid lets excreta pass through the widely-spaced bars; mouse cage includes mouse-size grid. Grids have handles for easy transport of cage without stand
▶ **Water Bottle** - Calibrated PC bottle with SS cap and sipper tube.
▶ **Water Spillage Tube** - Collects any water that animals spill. Facilitates accurate collection of fluid intake data
▶ Each cage includes complete assembly and use instructions, replacement parts list and warranty card

Designed for rats, guinea pigs and hamsters. Includes same fluid collection tubes and rings as the smaller rodent cages and the following components sized for larger rodents: upper chamber, water bottle and support, feeder assembly and urine collection tube.

Includes appropriate feeder drawer and chamber, four fluid collection tubes with funnels (two water spillage tubes and two urine collection tubes), two feces collection tubes and two urine rings.

Diuresis Metabolic Cage for Rodents

Cage has only 14 parts and components are designed for simplicity of operation and total part interchangeability. All parts below the cage floor are removable without disturbing the test animal, allowing tests to be conducted over a prolonged period of time without interruptions caused by animal re-acclimation. Cage performs well with either mice (in groups) or rats; only the feeders and floor grids must be changed.

All cages require support stand.

MODEL	DIMENSION
360-0M021	Single Mouse Metabolic Cage
360-3M020	Single Mouse Cage support plate (only required if purchasing a rack)
370-0M022	Metabolic Cage for groups of 3 mice
370-0M061	Metabolic Cage for rats <150g
370-0M071	Metabolic Cage for rats 150-300g
370-1M081	Metabolic Cage for rats >300g
3700D-000	Diuresis Metabolic Cage for rats up to 300g
3701D-000	Diuresis Metabolic Cage for rats >300g

Contact us if you would like to modify your existing cage to house smaller rodents.

Cage Stands and Racks

Cage Stands

▶ Stainless steel; nylon supports
▶ Holds one rodent metabolic cage

Vertical Metabolic Cage Rack

▶ Holds up to 12 Tecniplast metabolic cages for small rats and mice, 3 x 4 configuration
▶ Can also be adjusted to hold eight cages for large rodents. Rack is mounted on swivel casters; two lock for safety.

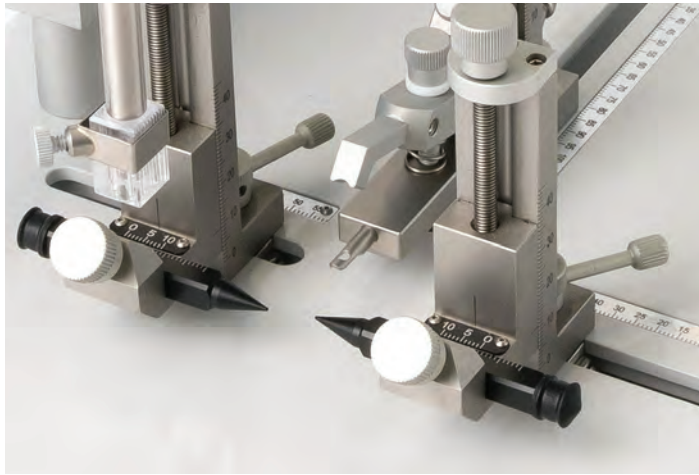| MODEL	DIMENSION
3M01D100	Metabolic Cage Support Stand for Single Cage
3M12D100	Metabolic Cage Rack Vertical, 12-Cage Rack

All prices subject to change without notice.

New Standard™ Stereotaxic Instrument for Rat and Mouse

Revolutionary design eliminates the U-frame allowing for greater flexibility and access to the animal

- ► No U-frame maximizes operating space
- ► Designed for a rat or mouse on the same base
- ► Vertical and horizontal adjustment of ear and nose posts accommodates rodents of all sizes
- ► Scales at ear and nose posts allow for precise positioning
- ► Equipped with integrated warming base

Innovative design provides users with the ability to perform surgeries on a mouse or rat on the same base. Includes a 100 micron 3-axes, left-hand manipulator arm, separate rat and mouse adaptors, dual sided (18° and 45°) rat ear bars, triple-point ear bars, and corner-clamp probe holder. Also available as dual, ultra-precise, digital or motorized.
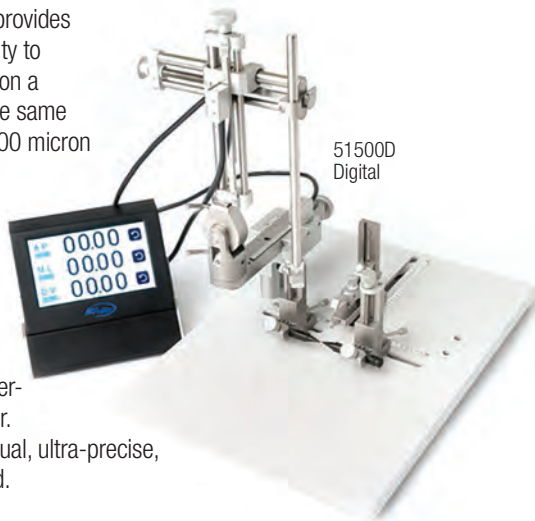
51500D Digital

MODEL	DESCRIPTION
51500	For Rat and Mouse
51503	Dual for Rat and Mouse
51500U	Ultra-Precise Rat and Mouse
51503U	Dual Ultra-Precise for Rat and Mouse
51500D	Digital for Rat and Mouse0
51503D	Dual Digital for Rat and Mouse
51500UD	Digital Ultra-Precise for Rat and Mouse0
51503UD	Dual Digital Ultra-Precise for Rat and Mouse
51500M	Motorized for Rat and Mouse

Shop online at www.braintreesci.com

Classic Lab Standard™ Stereotaxic Instrument for Rats

Multiple manipulator options available to increase resolution

- ► Classic U-frame design
- ► Interchangeable adaptors (for mice or rats)
- ► Gas anesthesia compatible
- ► Absolute lock at 90° vertical
- ► Available with integrated warming base

Time-proven U-frame design provides stability and adaptability while the instrument's triple-lead screws allow for smooth, consistent movements with rapid positioning. Includes a 100 micron, 3-axes, left-handed manipulator arm, rat adaptor, traditional (18°) ear bars, and corner-clamp probe holder. Also available as dual, ultra-precise, digital or motorized. Non-puncture 45° ear bars available.

MODEL	DESCRIPTION
51600	For Rats
51603	Dual for Rats
51600U	Ultra-Precise for Rats
51603U	Ultra-Precise Dual for Rats
51900	Digital for Rats
51903	Dual Digital for Rats
51900U	Digital Ultra-Precise for Rats
51903U	Dual Ultra-Precise Digital for Rats
51600M	Motorized for Rats with Joy Stick

Just for Mouse™ Stereotaxic Instrument for Mouse

- ► Dual-arm capable
- ► Ideal for knock-out and transgenic mice
- ► Multiple head-holding options
- ► Vertical post adjustment
- ► Gas anesthesia compatible
- ► Equipped with integrated warming base

Includes 10" x 10" (25cm x 25cm) square base, 100 micron, 3-axes, left-hand manipulator arm, triple-point mouse and ear bars, snout clamp, and corner clamp probe holder. Also available as dual, ultra-precise, digital or motorized.

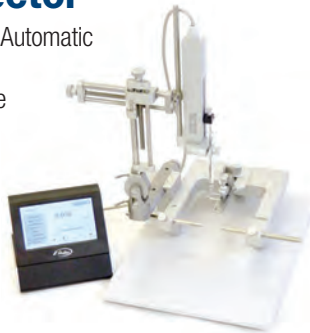| MODEL	DESCRIPTION
51730	For Mouse
51733	Dual for Mouse
51730U	Ultra-Precise for Mouse
51733U	Ultra-Precise Dual for Mouse
51730D	Digital for Mouse
51733D	Dual Digital for Mouse
51730UD	Digital Ultra-Precise for Mouse
51733UD	Dual Ultra-Precise Digital for Mice
51730M	Motorized for Mouse with Joy Stick

Manual Stereotaxic Injector

Stoelting's manual Stereotaxic Injector provides an economical means of injecting/withdrawing a calibrated volume with simple, precise manual control. Mounted directly on a stereotaxic frame, it allows precise injection directly through the needle into tissue avoiding compliance issues that arise when injections are forced through plastic tubing. Volumes as small as 200 picoliters may be infused or withdrawn.

MODEL	DESCRIPTION
51639	Manual Stereotaxic Injector

QSI™ Stereotaxic Injector

Control one or two independent injections. Automatic infusion or withdrawal of nL-µL volumes. Program injection parameters (volume, rate and syringe specifications) using touch screen control box or use preprogrammed syringe specifications. Accommodates Hamilton syringes sized 0.5uL-250uL.

► Add second injector to single model at any time
► Out-of-range warnings

MODEL	DESCRIPTION
53311	QSI Stereotaxic Injector, Single
53312	QSI Stereotaxic Injector, Dual

Mouse Anesthesia Masks for Stereotaxic Surgery

Adjustable snout clamp provides secure positioning for direct gas delivery. Inlet/outlet and outlet tubing connections allow for continuous flow of anesthetic gas and active gas scavenging from gas scavenger.

► 51509 is designed to deliver gas anesthesia during stereotaxic surgery and is used with the 51500 stereotaxic series.
► 51609M is compatible for use with 51730 mouse stereotaxic instruments including: Mouse and Neonatal Rat Adaptor (51625), Just for Mouse Stereotaxic Series (51730) and Just for Mice Stereotaxic (51625) Series

MODEL	DESCRIPTION
51609M	Mouse Stereotaxic Gas Anesthesia Mask (51730 series)
51609	Mouse Gas Anesthesia Mask (51500 Series Only)

Rat Anesthesia Masks for Stereotaxic Surgery

Gas anesthesia mask is installed over incisor bar, with the cone opening toward the open "U". Animal (rat or mouse) is installed by placing its teeth over the incisor bar, and sliding the adaptor forward until the cone is snug about animal's nose, thereby substituting for nose clamp. Teeth and cone provide a snug, stable hold. Anesthetic gas flows in the tubing connector, past the animal's nose, and out other side. Spent gas may be routed to recycling, exhaust or gas analysis instruments.

MODEL	DESCRIPTION
51509R	Rat Stereotaxic Gas Anesthesia Mask (51600, 51500 series)
51610	Rat Gas Anesthesia Mask for Stereotaxic

Mouse and Neonate Adaptors with Warming Pads

51625   51625-2   51625-1

Transform the Lab Standard™ (and other U-frame) stereotaxic for rats into an instrument appropriate for use with mouse and rat pup surgeries.

► Designed to fit into traditional 'U-frame' stereotaxic instruments so stereotaxic can be used with mice or neonatal rats
► Elevated Platform adapts 'U-frame' stereotaxic instrument by elevating mouse to appropriate height so bite and ear bars can be used. Adaptor is to be used with Non-Traumatic Mouse Adaptor kit - sold separately
► Microscope Platform for Mouse and Neonates holds animal's head securely for procedures being done independent of stereotaxic instrument

Adaptors are designed to be integrated with Stoelting Rodent Warmer System (sold separately) to maintain body temperature throughout surgical procedures. Thermal heating pads are embedded into adaptor to avoid cross contamination with easy clean-up and maintain a sterile environment during stereotaxic surgery. Can be used as a general warming system or with a rectal thermal probe (sold separately) for homeothermic regulation.

MODEL	DESCRIPTION
51625W	Mouse and Neonates Adaptor with Warming Pad
51625-1	Elevated Platform for Mouse Lab Standard
51625-2	Microscope Platform for Mouse and Neonates
51625	Mouse and Neonates Adaptor
53800-CB	Stoelting Rodent Warmer Control Box X1 with cable
50304	Rectal Thermal Probe

Lab Light

Magnetic base/puck system holds lab light firmly on base in any location. Ultra strong magnetic base/puck system allows lab light to attach to non-metallic surfaces. Optional on/off plug switch for easy operation.

► LED on 10" flex arm with 1.625" dia. base
► Attaches directly to metallic surfaces

MODEL	DESCRIPTION
LL13	Lab Light
LLSW	On/Off Plug Switch

Stereotaxic Surgical Instrument Kit

Contains all necessary tools for mouse or rat stereotaxic surgeries. Includes double sterilizing tray that will fit all the tools and Kane Clamp for retracting the skin for optimal view of the skull without causing trauma to the surrounding tissue.
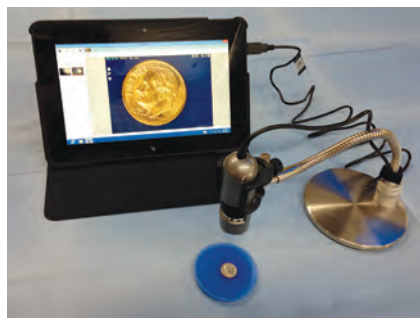
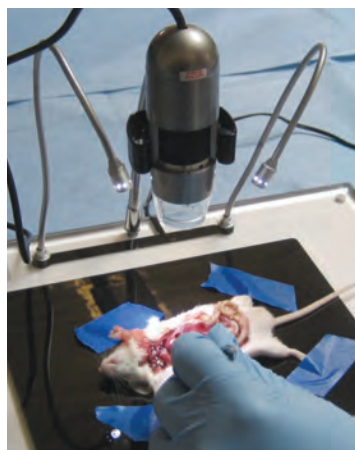| MODEL	DESCRIPTION
52189	Stereotaxic Surgical Tool Kit

Portable Digital Microscope/Camera

Equip your surgery platform with a portable digital microscope/camera

Capture a photo, real time video, time-lapsed video, project image.

Ideal for small rodent surgery, demonstrations, dissections and much more!

Features a 2.0 USB connection eliminating the need for interface cards or expensive software. Easy and convenient to load and use DinoCapture application software and user's manual are included for collection and processing of photos.

► Resolution: 640 x 480 pixels
► Magnification: 10~200x continuous
► Sensor: 1/4" Color CMOS
► Video frame rate: up to 30 frame-per second
► Illumination: built-in 8 white LEDs
► CD Content: DinoCapture application software, users manual
► Automatic or manual color balance and brightness control

System Requirements:
► Compatible Windows 2000/XP, Vista and most MAC OS
► Intel Pentium III 1 GHz processor or faster
► 256 MB RAM
► CD-ROM drive
► 16-bit color display monitor or higher
► Available hi-speed USB 2.0 port

MODEL	DESCRIPTION
PDMC	Digital Microscope/Camera includes mounting bracket (DMCB), DinoCapture software, USB 2.0 extension
DMCB	Bracket for Microscope/Camera (PDMC)
TSPCK	Thermo Surgery Platform/Camera Kit includes thermo surgery platform with gel-pads, digital microscope/camera, mounting bracket (DMCB), DinoCapture software, USB 2.0 extension
SSPCK	Standard Surgery Platform/Camera Kit includes standard surgery platform, digital microscope/camera, mounting bracket (DMCB), DinoCapture software, USB 2.0 extension

All prices subject to change without notice.

Magnifying Surgical Loupes

Quickly improves vision and corrects poor posture

To choose the right product:
A higher magnification surgical loupe reveals incredible detail but comes with small field of view. User should choose a higher magnification to focus on a narrow work area and to see details that a higher magnification affords.

Lower magnification results in wider field of view and enables user to monitor a broader work area. Because of the greater depth of field, the surgical loupe allows more freedom of movement as they are less sensitive to changes in working distance.

Working Distance: Working distance is approximate distance between users eyes and object user is working on. To choose a pair of surgical loupes with correct working distance, imitate the circumstances of a surgical procedure and try measuring working distance. Keep back straight and be in a comfortable working position. People below 5'7" usually need loupes with 340mm working distance while taller person needs loupe with 420mm working distance in a sitting position.

Illumination: Super bright LED light attaches to surgical loupes for hard to light areas. Two intensity levels and adjustable power at each level. User will find it hard to look into the illuminated area at maximum power setting. Battery can run for 7 hours continuously at lower level or 4 hours at high level. Light weighs only 11g and illuminates a spot with 70mm diameter from 400mm with 6000 K (pure white) color.

MODEL	DESCRIPTION	MAGNIFICATION	WORKING DISTANCE
ML-662	Clip-on surgical loupes double hinge, flip-up design (glasses not included)	2.5x	340mm
ML-672	Clip-on surgical loupes double hinge, flip-up design (glasses not included)	3.5x	340mm
ML-611	Sports frame with glasses double hinge, flip-up design	2.5x	340mm
ML-613	Sports frame with glasses double hinge, flip-up design	2.5x	420mm
ML-623	Sports frame with glasses double hinge, flip-up design	3.5x	340mm
ML-625	Sports frame with glasses double hinge, flip-up design	3.5x	420mm

DermaScout™

Used to view, measure and monitor skin lesions, fungal infections, tumors, warts and other conditions that may affect the epidermis.

► 6x magnification with 40mm top lens
► Diopter focus control for sharp focusing
► 40mm field of view (flat field), 31mm working distance
► LED illuminated with an array of 9 LEDs
► Over 150 hours of battery power with included battery
► Reticule with dual measuring scales: millimeters and inches
► 20mm, 10 left of center/10 right of center
► Measure in 0.1mm/0.05"
► Durable locking transport and storage case

MODEL	DESCRIPTION
DS-6-02	DermaScout™

Rat Loft™

Perforated stainless steel platform that is bent to form a hook allowing loft to be hung from top lip of cage. Hinged floor design allows access to rat if beneath it. Easy to install and can be left in cage for cleaning. Increases floor space per cage. Allows nursing mother a place of refuge from pups.
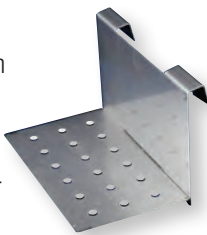
MODEL	DESCRIPTION
RAT-LOFT-H	6.5"W x 3.5"D x 3.5"H, hinged perforated deck
RAT-LOFT-OS	Oversized, 6.5"W x 4.5"D x 3.5"H
RAT-LOFT-S	Small, 5"W x 3.5"D x 3.5"H, perforated deck
RAT-LOFT M	Standard, 6.5"W x 3.5"D x 3.5"H, perforated deck

Cocoon Nesting Fibers

Environmental enrichment nesting and bedding product for rodents. Offers the animal an opportunity to fulfill their nesting instincts.

Cocoon fibers are very short which is safer for the animal and allows it to create a soft nest, much like a natural habitat. Whitened without chlorine. Sold 5,800 cylinders per case.

Now in larger rolls!

MODEL	DESCRIPTION	UNITS
XKA-2600-086	Cocoon Nesting Fibers	5,800/cs

Refuge Mouse Hut

A comfortable and quiet place to rest, or to climb on and explore.

► Material to shred, usually lasts 7 to 30 days
► 4"W x 4"L x 2.5"H, 3 openings
► Environmentally safe, non-toxic

MODEL	DESCRIPTION	UNITS
XKA-2700087	Refuge Mouse Hut	300/cs

Mouse Swing

Mouse Swing is a by-product of the annual Janet Wood Innovation Award – a competition, run by Datesand, that must further at least one of the 3Rs. Easily clips onto bars of most cages, increasing the useable cage space and encouraging climbing. Promoting the natural behavior of these animals, stereotypical behavior can be better prevented.

MODEL	DESCRIPTION	UNITS
M-SWING-50	Mouse Swing	50/pkg
M-SWING-100	Mouse Swing	100/pkg

Shop online at www.braintreesci.com

Mouse Transfer Tunnel

Tunnel handling is a proven method to reduce stress and anxiety when transferring a mouse.

► 2-sizes: 100x50mm or 130x50mm
► High grade polycarbonate maintains shape – autoclavable and cagewasher safe

MODEL	DESCRIPTION
TRANS-TUBE-100X50MM	Mouse Transfer Tube – 100x50mm
TRANS-TUBE-130X50MM	Mouse Transfer Tube – 130x50mm

iso-PADS

► FDA-approved, hypoallergenic cotton-based cellulosic fibers
► Perfect companion for micro isolation units or standard shoebox cages
► Absorbs more than 400% its weight in water, enhanced evaporation of liquids
► Controls odors better and lasts longer than traditional bedding materials
► Biodegradable and environmentally friendly, reduced waste volume
► No pouring and no dispensers greatly reduces airborne particulates

MODEL	DESCRIPTION
ISO-6105	6" x 10", non sterile, bulk, 500/case

Innorichment™ Package

Flat nesting enrichment that delivers consistent results while minimizing labor, storage and waste. Arrives irradiated and ready to use.

► Keeps rodents active and helps reduce aggressive behavior
► Helps regulate body temperature
► Zigzag strips of varying lengths allow for more complex foraging and nesting activity
► Multiple tear points make it easier for rodents to break apart
► Rounded corners of strips provide a gentler touch to rodents
► Control an exact quantity of material to reduce cost and waste
► Nests can be easily transferred to reduce animal stress
► 100% virgin kraft paper
► 11.5"W x 6.75"H 3-ply sheets weigh only 7.2 grams

MODEL	DESCRIPTION
INNO-RICH	Innorichment, 500 3-ply shets per case

New! Aquatent

Simple yet ingenious design, Aquatent promotes natural behaviors in aquatic species such as Zebrafish, giving rise to a number of benefits for both models and those in charge of their care.

► Increased embryo production, decreased culling rates
► Early detection of health concerns

MODEL	DESCRIPTION
AQUATENT	Aquatent

New! Playtunnel®

A long-lasting, high-quality enrichment item, providing opportunities for hiding, climbing for a secluded refuse from cage mates. Stimulates playful activity and satisfied natural gnawing instincts. Tunnels can also act as a useful tool when handling animals. Autoclavable.

MODEL	DESCRIPTION	QTY
CS3B01-800	Playtunnel, 75mm x 38.1mm	800/box
CS3B02-400	Playtunnel, 100mm x 50.8mm	400/box
CS3B01-100	Playtunnel, 75mm x 38.1mm	100/box
CS3B02-50	Playtunnel, 100mm x 50.8mm	50/box

Tunnel Clip

Simple design made from durable polycarbonate. Allows user to suspend play tunnels from cage lid creating more space and more complex cage layout, improving enrichment and overall welfare of animals. Attach or remove clip and add a tunnel in seconds with minimal effort. Lifts play tunnels from cage floor. Autoclavable.

Playtunnel sold separately.

MODEL	DESCRIPTION
SZPCTC-M	Tunnel Clip, 25/pk
SZPCTC-L	Large Tunnel Clip, 25/pk

New! C-Saw

A creative entry to Datesand's Janet Wood Innovation Award, C-Saw is an environmental enrichment device based on the original "see-saw" concept. Provides variable exercise and increases sensory balance awareness in small rodents. Easy slide-on design. 4" x 8" x 8", autoclavable.

Playtunnel sold separately.

MODEL	DESCRIPTION
CSAW	C-Saw, 25/pk

Clip-On Clear Handling Tube

Research has shown that picking up mice by the tail induces aversion and high anxiety and generally should be avoided. Patented by Datesand, Clear Handling Tubes come with integral clips to allow attachment to any cage bars.

► Universal and allows the tunnel to be fitted either along the length of the cage or across it for full flexibility
► 50mm inside diameter
► High grade polycarbonate, autoclavable and cagewasher safe

MODEL	DESCRIPTION
CLIP-ON-CHT	Clip-On Clear Polycarbonate Handling Tube

All prices subject to change without notice.

45 YEARS 1980-2025

Braintree Scientific

Red Rodent Tunnel

Providing rodents with a safe refuge is vital to their well being and promoting positive behaviours. Red Rodent Tunnels offer a secure, sheltered hiding place without adversely affecting the visibility to carry out cage checks. Can also be useful as a handling device, offering a simple way to separate an individual in multi-animal environments.

► Mouse tunnel: 100mm L x 50mm inside dia., 3mm wall thickness
► Rat tunnel: 150mm L x 80mm outer diameter
► High grade tinted polycarbonate – autoclavable and cagewasher safe

MODEL	DESCRIPTION
REDTUN-M	Red Rodent Tunnel for Mice
REDTUN-R	Red Rodent Tunnel for Rats

Red Mouse Tent

Mouse Tent creates a sense of safety and sanctuary, providing mothers a perfect nesting location while remaining transparent enough to allow for quick and easy cage checks. Flat upper surface adds an additional layer to the cage environment and increases available floor space allowing for additional enrichment and safe place for mice to escape to in the event of cage flooding. Designed with a specific angle so animals cannot turn it upside down and use it as a boat.

► Increase cage floor area – 130 x 130 mm floor area, 38 mm high
► Autoclavable red polycarbonate
► Cagewasher safe – easy to clean, store and stack
► Excellent quality yet highly economical

MODEL	DESCRIPTION
TENT-M	Red Polycarbonate Mouse Tent

Red Mouse Wedge

This versatile enrichment device creates a sense of safety and sanctuary, providing a place to nest and hide while remaining transparent enough to allow for quick and easy cage checks. Flat top increases available floor space and adds variety and height to cage setup. Innovative Click & Connect system allows user to combine as many items together to ensure mice never get bored! Higher platform also provides a refuge in the event of cage flooding. Autoclavable.

| MODEL	DESCRIPTION
WEDGE-M	Red Polycarbonate Mouse Wedge

Mouse Mezzanine

Limited floor space for your animals – the Mezzanine adds an extra layer to the cage while increasing the available floor space. The addition layer creates a refuge in case of cage flooding events. Manufactured in a sturdy red polycarbonate, the simple yet effective design fits nicely into the cage without restricting access to food and water supplies. The product offers a wide variety of space, activity and shelter to enhance the wellbeing of your animals.

MODEL	DESCRIPTION
MEZZA-M	Each

MD PVC-Rat
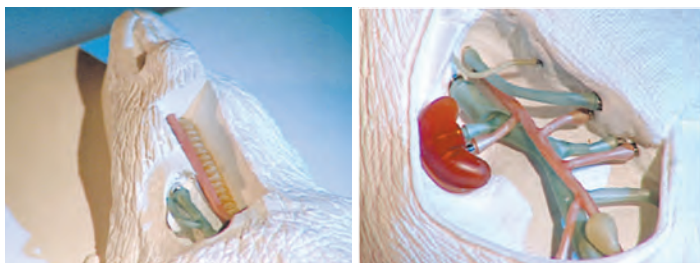
Microsurgical Developments PVC-Rat can be used as a replacement to living animals and developed to master skills in microsurgery. Using the model during training of scientists and animal technicians, the number of live-animals needed will be reduced drastically. It gives the possibility of training approximately 25 different microsurgical techniques (i.e. anastomoses, cannulations, transplantations of vessels and organs).

Most basic skills and experimental techniques are described in the Manual of Microsurgery on the Laboratory Rat.

Anastomosis - The MD PVC-RAT gives the possibility of training several anastomose-techniques in situ: end-to-end, end-to-side, side-to-side.

Cannulations - The MD PVC-RAT gives the possibility of training several cannulation techniques. One can practice the cannulation of: Jugular vein, portal vein, renal vein, iliolumbar artery, thoracic duct, double bile fistula

In the Portal vein of the MD PVC-RAT one can practice the Porta Caval Shunt techniques, e.g. the button technique (acc. to Funovics) or the suture technique (acc. to Lee and Fisher).

Transplantations - The following transplantation techniques can be practiced in the MD PVC-RAT: heart, kidney, blood vessels, prostheses

Includes carrying case, video-user-guide and several spare parts.

MODEL	DESCRIPTION
MD-PVC-1	Model
MD-PVC-2	Parts

Skin Pads

For training and practicing core skills associated with wound closure, making an incision, application of skin adhesives, interrupted suturing and knotting, stapling. Latex free. Works with all major topical skin adhesives. Excellent for displaying variety of sutures and skin adhesives. Two sizes available.

MODEL	DESCRIPTION
ALT-00550	Skin Pad Jig
ALT-00091	Professional Skin Pad MK2, small 125mm x 72mm, pack of 4
ALT-00092	Professional Skin Pad MK2, large 145mm x 125mm, pack of 2

Rodent Tail Vein Simulator

Tail Vein Simulator Training Kit for venipuncture and blood collection. Can be used approximately 100 times. Includes 1 simulator, 5 injection sets, and 2 blunt needles.

MODEL	DESCRIPTION
HW-MS BK	Mouse Tail Vein Simulator, black mouse
HW-MS WK	Mouse Tail Vein Simulator, albino mouse0
HW-RS SK	Rat Tail Vein Simulator

Natsume Rat

In hopes to contribute to a reduction in the number of experimental animals used, the Natsume Rat is used by those concerned with practical efforts for alternatives to animal experiments in medical, pharmaceutical, and veterinary education and the education for practicing animal experiment techniques. The concept of 3Rs proposed by Russell and Burch (Replacement, Reduction, Refinement) in 1959 is currently the international principle on performing animal experiments, and this is an essential principle in the life sciences.

► Retention / holding oral administration
► Endotracheal intubation
► Tail vein injection
► Blood collection through tail vein
► Includes main body of rat model, tail, simulated blood and instruction manual

Specifications:
**Length of body:** 19cm
Length of tail: 18cm
Sex: Male
Body weight: about 200g
Options: Simulated blood (50mL), spare tail

MODEL	DESCRIPTION
NATSUME-1	Natsume Rat
NATSUME-2	Replacement Tail
NATSUME-3	Simulated Blood (50mL)

Mimicky® Mouse

Mimicky® assists in the training of mouse handling techniques and procedures. By using this mouse type simulator, users contribute to the realization of the philosophy of the 3 R's (Replacement, Reduction, Refinement). By using alternative training and treatment before use, more humane principles, can be achieved.
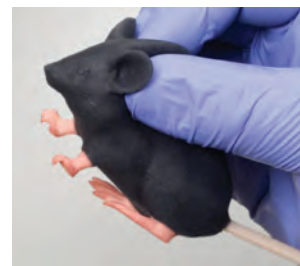
This is a simulator that mimics the experimental animals (mice) Mimicky (mimicking) the feel when dealing with biometric mice.

► Handling
► Restraint
► Physical assessment
► Oral administration
► Intravenous administration

Specifications:
Length of body: Approx. 70mm L x 39mm H x 31mm W - 25g
Length of tail: Approx. 130mm (exposed section approx. 110mm) - 3g
Body weight: Approx 28g

MODEL	DESCRIPTION
MIMICKY-1	Mimicky Mouse
MIMICKY-2	Replacement Tail

The CurVet™ Rat Training Simulator

Training aid designed to provide skills required for humane and ethical handling and procedural competencies, without the need to use a live animal. Made using a material that does not include latex, but gives a unique sensitivity of a living specimen.

Realistic dermatological skin, suitable for:

► Injections by most conventional routes and micro-chipping identification
► Handling and restraint (including the ability to scruff if required)
► The deliberate absence of fur enables this model to be cleaned and sanitized with an appropriate chemical sterilant

Head and spinal movement, including rear limbs

► Suitable for oral administration
► Lateral and ventral head movement

Realistic removable tail with two lateral tail veins ideal for:

► Blood sampling and intravenous administration
► Insertion of a flexible catheter (Angiocath)
► Tail has a self sealing material hence long life span
► Artificial realistic non-toxic blood available

Realistic features such as:

► Eyes and hard palate with incisors
► Pink extremities, fore and rear limbs
► Anus and rectum with limited aperture for thermoregulation monitoring i.e. clinical or digital thermometer
► Adult rat size and weight approximately 300g

This model is NOT a toy, but a well thought out training aid to replace the use of a live animal to gain manual skill and competence, thus avoiding stress to both animal and handler.

MODEL	DESCRIPTION
CURVET-1	CurVet Rat Ethical Training Simulator
CURVET-2	Replacement Tail

Safety and Cleaning

New! Biohazard Stick-On Bags

Place your biohazard waste bag where you need it. Convenient adhesive strip adheres to most clean, dry surfaces without damaging. Easy clean up! A second adhesive strip seals the full bag. Universal biohazard symbol and bilingual biohazard text printed on bag, 2 mil thickness for extra protection.

MODEL	DESCRIPTION	DIMENSIONS	QTY/PK
MRWB142324	Biohazard Stick-On Bags 2.6 qt.	12" x 14"	100
MRWB142316	Biohazard Stick-On Bags	9" x 14"	100

New! Biohazard Red Waste Bags

Meets OSHA requirements

Conveniently sized for every need. Each bag displays the universal biohazard insignia and is imprinted with a bilingual hazard warning. Perforated roll easy to use for smaller bag sizes.

MODEL	DESCRIPTION	DIMENSIONS	QTY/PK
EB086000 5GAL	Biohazard Waste Bags, 5 gallon	23.625" x 15.75"	200
EB086000 3GAL	Biohazard Waste Bags, 3 gallon	18.75" x 14.75"	200
EB086000 1GAL	Biohazard Waste Bags, 1 gallon	9" x 10"	200

New! Peroxigard Concentrate

Peroxigard Concentrate can be diluted at specific ratios based on the type of application you require. Excellent for daily use and outbreak situations.* For more information on specific organisms, visit the Additional Claims section on the Peroxigard Concentrate page at www.PeroxigardDisinfectant.com.

MODEL	DESCRIPTION
PCON-242311	55 gallons
PCON-242021	Workplace Labels 10/pk

Benchtop Bag Holder

Perfect benchtop disposal container for tips, tubs, gloves, plates, etc.

Tailor-made for 8.5" x 11" autoclave bags, providing the perfect disposal container for all the contaminated or expended materials in your lab.

► Compact – 3" x 5" footprint
► Autoclavable – sturdy, steel contruction
► Biohazard bags feature printed marking area

MODEL	DESCRIPTION	QTY
A9004-WR	Wire Rack Stand for 8.5 x 11" autoclave bags	1
A9004R	8.5" x 11" (21.6 x 28cm), red, biohazard	100

New! Peroxigard Ready to Use Surface Cleaner/Disinfectant

Excellent for daily use and outbreak situations. Formulated with Accelerated Hydrogen Peroxide, Peoxigard is approved for use against SARS-CoV-2 (virus that causes COVID-19) when used in accordance with directions for use against Poliovirus type 1, with a one minute contact time. Simply apply the product and walk away, allowing to air dry. Non-irritating and not harmful to inhale (aerosolization of Peroxigard may cause sensitive individuals to cough). Does not require dilution or mixing with water – attach a trigger spray or foamer to bottle or secondary container and use.

MODEL	DESCRIPTION
PRTU 242109	Peroxigard Ready to Use, 5 gallon pail with spout
PRTU 242101	Peroxigard Ready to Use, 32 oz. squirt bottle, 12/case
PRTU 242105	Peroxigard Ready to Use, 1 gallon bottle, 4/case
PRTU 242111	Peroxigard Ready to Use, 55 gallon drum

*All prices subject to change without notice.*

Reference Books

Anatomy of the Rat

By Eunice Chace Greene

Available only from Braintree Scientific

This classic book offers basic reference for all researchers using laboratory rats. It includes 339 precisely detailed presentations of the rat - numerous colorful, hand sketched skeletal diagrams provide a thorough analysis of the anatomy of a rat. The large format (8.5" x 11"), clarity of the presentations, and its spiral binding - allowing it to lay flat, contribute to this valuable researcher's assistant. Whether in the library or lying on a laboratory bench, this reference book is a valuable tool. In our opinion, no other textbook even comes close!
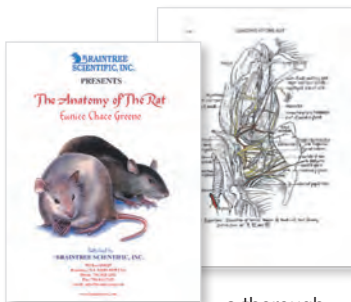
MODEL	TITLE
AR	Anatomy of the Rat

Manual of Microsurgery on the Laboratory Rat

An up-to-date didactic manual describing experimental microsurgical techniques in great detail.

Includes general information about rat, i.e. anatomy, anaesthesia and sterility and a wide range of general techniques. Experimental techniques are covered in greatest depth. All essential steps taken during operations are shown in meticulously accurate drawings making the manual an accurate instrument in teaching/studying microsurgery and microsurgical techniques.

MODEL	TITLE
MICROSURG	Manual of Microsurgery on the Laboratory Rat

45 YEARS
1980-2025

Braintree Scientific

HeroRAT

Meet our newest HeroRat®, Ronin

Braintree Scientific is the proud corporate sponsor of "Ronin"

Our first HeroRAT, Sniffles, a mine sniffing rat, and Chewa, a TB sniffing rat, have retired. Carolina is still busy sniffing for TB. We are proud to announce, we are the new adoptive parents of Ronin, a mine sniffing HeroRAT.

Ronin is a gentle land mine detection rat. Focused and hard working, Ronin sniffs out explosives faster than conventional solutions. Carolina is a female tuberculosis detection rat that can search 100 sputum samples in 20 minutes – much faster than a lab tech.

Scientists envisioned the pre-dominant role of rodent species (rats and mice) in biomedical and veterinary research. Our mission is to provide new technology products, and supplies enabling its vision. We embrace the HeroRat® concept as a novel embodiment and expansion of its central vision – the growing partnership between human and rodent species to advance scientific and biomedical knowledge, improve human and animal health, improve detection of disease and treatment options, and clean up our environment.

To sponsor your own HeroRAT® and for more information, visit www.apopo.org.

Why the African Pouched Rat?

► They are intelligent creatures, easily conditioned, and enjoy doing repetitive tasks when rewarded with food
► They have a highly developed sense of smell
► They have an 8-year lifespan and several productive years after the initial year of training
► They are lightweight, so they cannot set off a mine
► Compared to dogs: cheaper to breed, feed, house, maintain; and they don't get attached to one trainer.

Why sponsor a HeroRAT?

Landmines injure and kill innocent people every day, and every second someone new contracts tuberculosis. These are daunting numbers, but a cost effective (tax deductable) solution exists: HeroRats®!

A HeroRat® can screen 40 samples for tuberculosis in seven minutes, equal to what a skilled lab technician can do in a day. Alternatively, two men with metal detectors can clear an average of 200 square meters in an eight-hour day while the same two men using APOPO's mine detection rats can clear the same area in 1.5 hours.

Braintree Scientific, Inc. is honored to be the first corporation to solely sponsor a HeroRat®. We proudly accept this leadership position and challenge others to do the same.