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PRECISION  
INSTRUMENTS

# NEW LAB PROGRAM

Save on Lab Supplies • Expert Help • Application Packages



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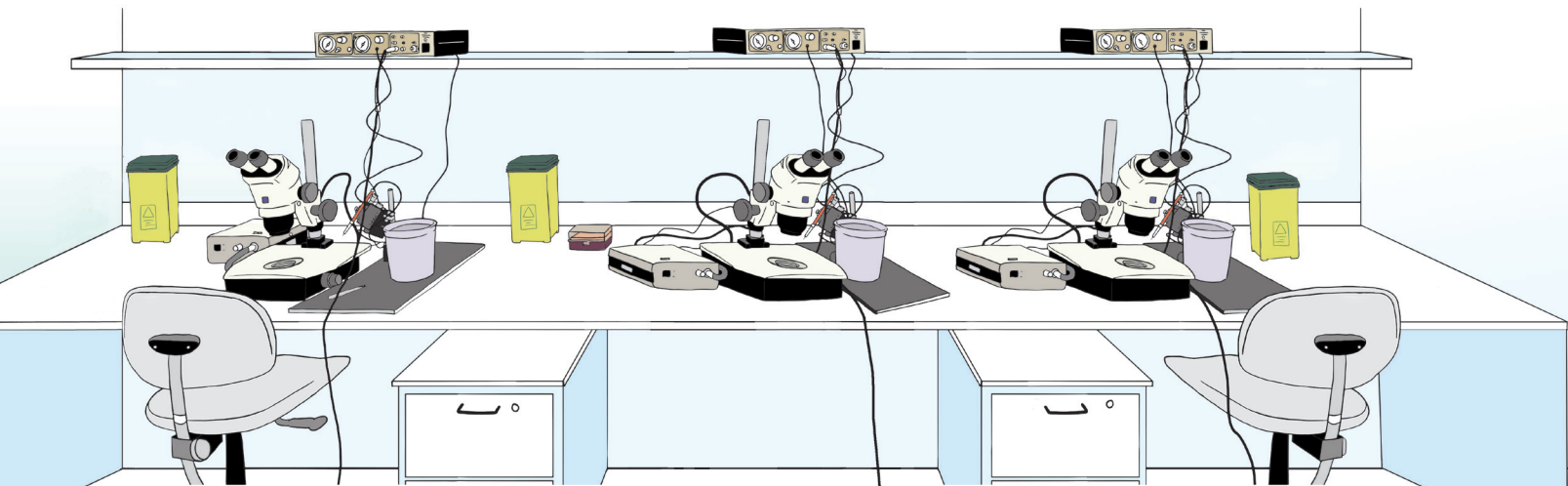
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## AFFORDABLE TEACHING LAB APPLICATION PACKAGES

Setting up multiple workstations for students?  
Need expert help to set it up?  
Want cost-effective equipment and lab supplies?



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# NEW LAB PROGRAM

Join the New Lab Program and save even more on your Application Packages. By joining the New Lab Program, you also get access to our product experts who can help you tailor application packages for your laboratory. You can also save on needed accessories and get bulk discounts on a number of popular lab supply necessities. See all the application packages in this booklet and get the program details. Then, sign up online at [www.wpiinc.com/newlab](http://www.wpiinc.com/newlab).

## WHY JOIN?

- 1 Major savings on application packages
- 2 Access expert help
- 3 Save on lab supplies and accessories

## WHO CAN JOIN?

- Researchers starting a new lab in the USA
- Researchers moving into a new space in the USA
- Researchers who have received their first research grant in the USA

## HOW DO I JOIN?

- Register at [www.wpiinc.com/newlab](http://www.wpiinc.com/newlab)
- A dedicated account representative will contact you to assist you and provide you with the best solutions.

## IT IS THAT EASY!

Get even more. Spend even less.

## APPLICATION PACKAGES

WPI offers customizable application packages for many laboratory and research protocols. Get everything you need for your application in one place. Select one or more of our pre-configured system packages or let us help you tailor design a customized package that is perfect for your applications. This book outlines some of our popular application packages.

## GET EXPERT HELP

Our technical team is highly qualified to help you with your product needs. The team is committed to ensuring that you are well taken care of and that you receive the product support you deserve.

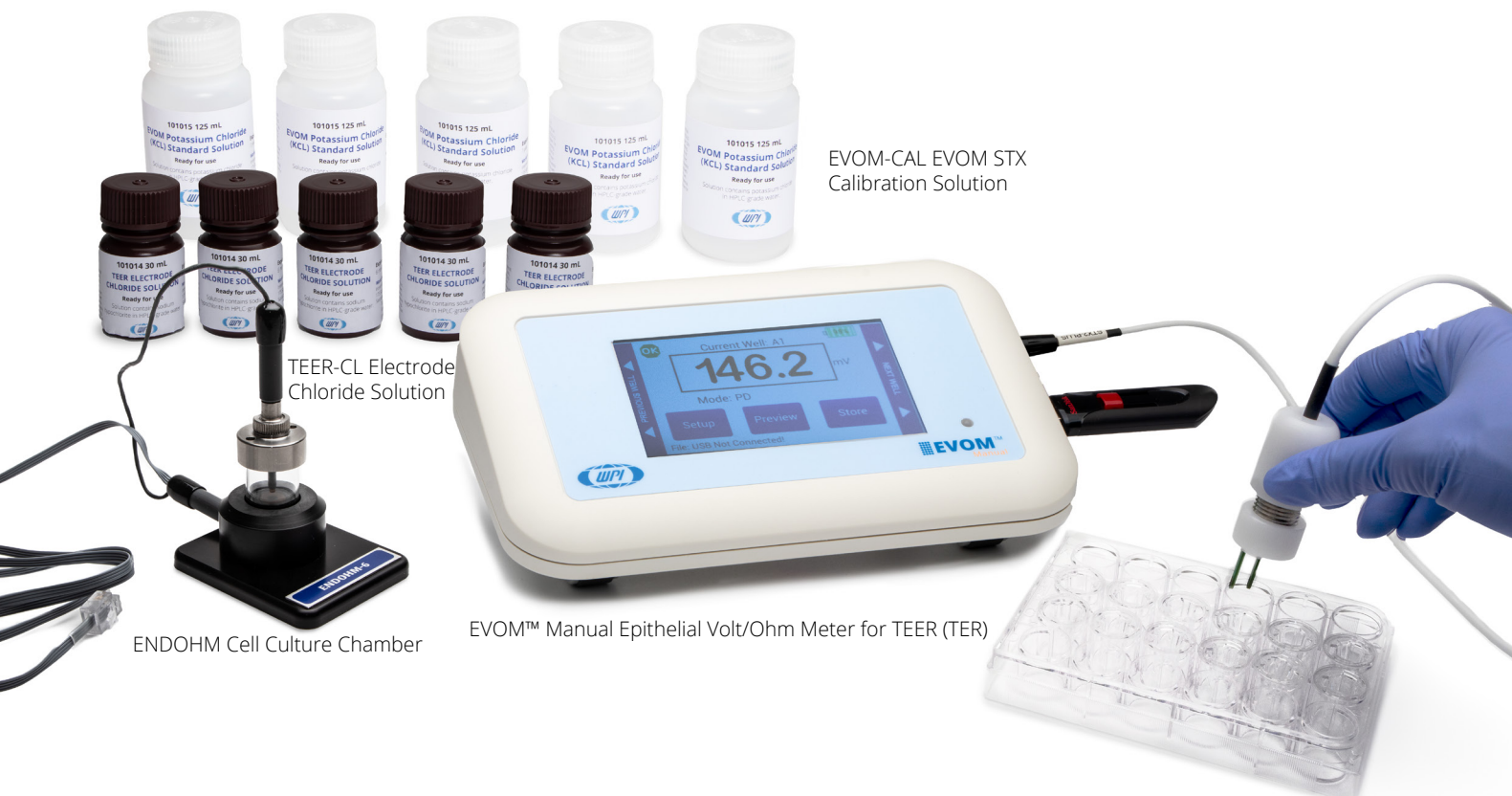
## SAVE ON LAB SUPPLIES

Enjoy great discounts on popular lab supplies and surgical instrument kits. Buy in bulk and save on cyanoacrylate adhesives, silicone adhesives and biopsy punches. Get great discounts on ear tags and many surgical instrument kits, or talk to your representative about the surgical accessories you need in your lab.

[www.wpiinc.com/newlab](http://www.wpiinc.com/newlab)

# Manual TEER Measurement Package

WPI's EVOM system is popular in the research community, and it is commonly used for the evaluation of mammalian cellular health by measuring transepithelial/transendothelial electrical resistance (TEER or TER) of cellular layers. EVOM3 has advanced features for performing experiments easily. With the new touchscreen display you can now store data as Microsoft® Excel files on a USB flash drive. Just remove the flash drive with all your recorded data from the EVOM3 and plug it into a computer to access and plot your data. It is as simple as it sounds.



## MANUAL TEER MEASUREMENT SYSTEM

Part Number	Description
EVM-MT-03-01	EVOM™ Manual High Throughput Screening System
TEER-CL	TEER Electrode Chloride Solution
EVOM-CAL	EVOM STX Calibration Solution
EVM-EL-03-01-01	Choice of EndOhm Cell Culture Cup Chambers for use with the EVOM3
EVM-EL-03-03-01	STX4 EVOM™ Electrode with Removable Blades for TEER in 6 mm Inserts
EVM-EL-03-02-01	STX HTS EVOM™ Electrode for TEER in Corning 96
EVM-EL-03-02-02	STX HTS EVOM™ Electrode for TEER in Millipore 96
EVM-EL-03-02-03	STX HTS EVOM™ Electrode for TEER in Corning Biocoat/ Falcon 24
EVM-EL-03-02-04	STX HTS EVOM™ Electrode for TEER in Corning Costar 24
CCI96-PET-0.4	PermaCell Cell Culture Insert Plates, 96-well, PET, 0.4 µm



# Cover Your Assay Protection Plan

WPI recognizes how valuable your research is and strives to ensure that your research continues with minimal disruption when unexpected events occur. In an effort to best support researchers and minimize equipment and personnel downtime, we are pleased to introduce our **Cover Your Assay Protection Plan**. For a limited time, EVOM™ Manual System purchasers have the opportunity to be upgraded to Premium Warranty coverage on the EVOM™ Manual and WPI STX HTS EVOM™ Electrode when you commit to purchase as few as 50 PermaCell insert plates per year. This plan coverage exceeds the EVOM™ Manual standard manufacturers warranty and includes accidental damage to your equipment. If our Precision Care Center is unable to repair your EVOM™ Manual unit within 5 days, a new unit will be shipped out to you overnight (up to one replacement per year), pending availability. Our Cover Your Assay Protection Plan also extends the WPI STX HTS EVOM™ Electrode warranty from 30 days to include up to two electrode replacements per year. This plan covers:

Repairs of  
Accidental  
Damage

Live Technical  
Support

Annual  
Calibration  
and  
Maintenance

Software  
Upgrades  
when  
available

EVOM™  
Manual and  
STX HTS  
Electrode

For details, see: [www.wpiinc.com/extended-warranty](http://www.wpiinc.com/extended-warranty).

## RETURN POLICY

- When a full system is purchased, only the full system may be returned.
- Once insert plates are opened, plates cannot be returned for a refund. If a system is returned, the regular selling price of the plates will be deducted from the system price for a partial return credit.
- The CYA Protection Plan guarantee is void if the minimum insert plate purchase has not been made.
- Warranty may be reinstated if the purchase quantity is made current.

\*WPI is an authorized distributor of MatTek PermaCell insert plates.

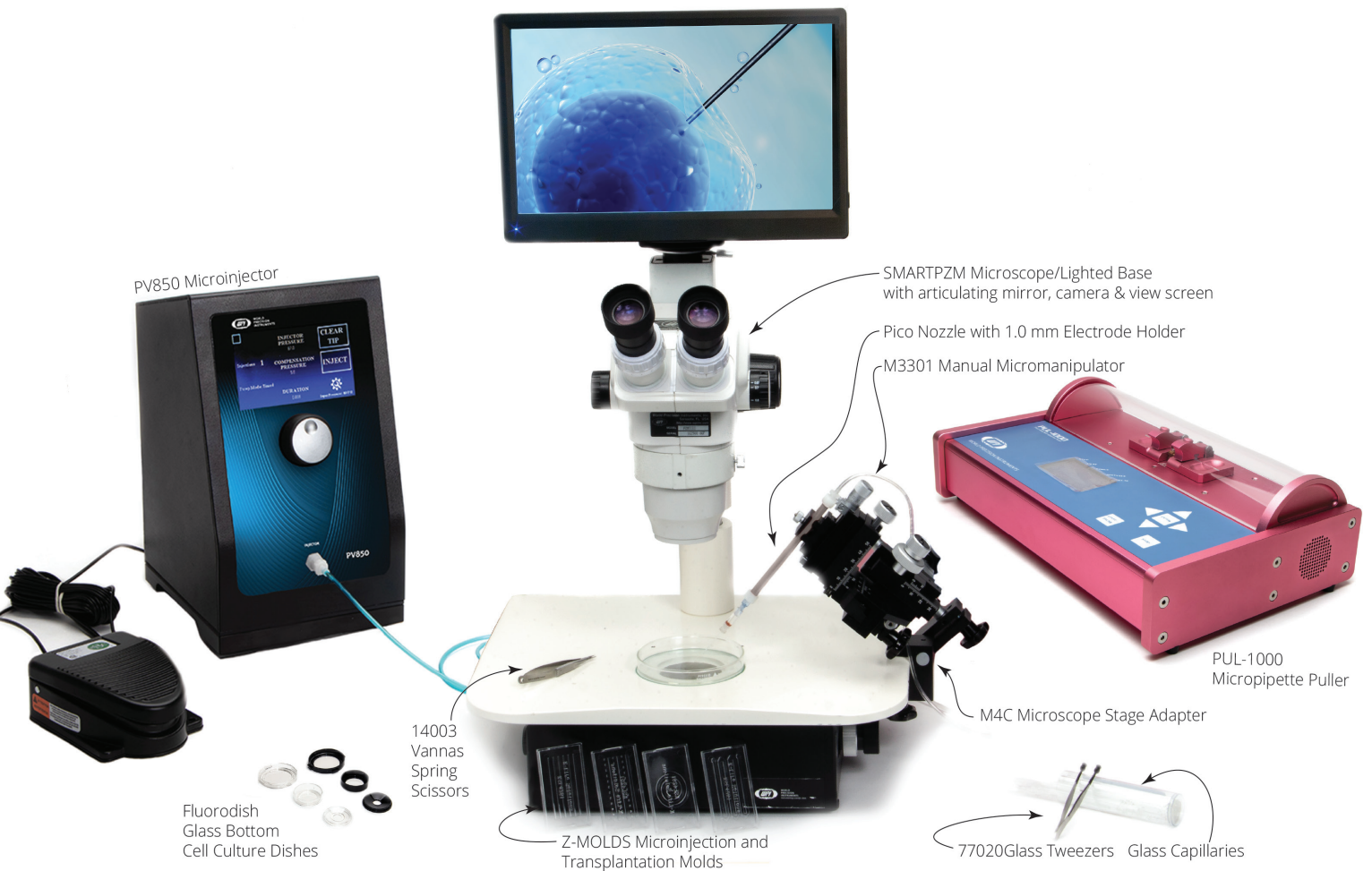


# Microinjection Application Packages

Our customizable Microinjection Application Packages has everything you need to get started.  
**We can help you customize your system with many options and accessories.**

The basic system includes:

- Microinjection pump like the PV850 Microinjector
- LED lighted microscope base with a PZMIII Stereo Microscope and an articulating mirror
- Micromanipulator



WPI offers a variety of pumps along with special syringes, stereotaxic frames, glass capillaries and needles. The setup you choose depends on the size of your microinjection aliquots, the volume to be injected and the size of needle or glass tip you choose.

Whether you are working with *Danio rerio* (zebrafish), *Xenopus*, *Drosophila* or *Caenorhabditis elegans*, we can help you customize a microinjection system for your application.

## ADVANCED ZEBRAFISH MICROINJECTION SYSTEM WITH PULLER

Part Number	Description
uPump	Microinjector with External Pressure Source
SMARTPZM	Teaching Microscope System
M4C	Microscope Stage Adapter
M3301-R or -L	Manual Manipulator, Right or Left Hand
PUL-1000	Microelectrode Puller
Z-MOLDS	Zebrafish Microinjection and Transplantation Molds
77020	Glass Handling Forceps, Straight
504507	WPI Swiss Tweezers, Acid-Resistant/Anti-Magnetic, #5
14003	Vannas Scissors, 8 cm (3.5"), Straight, 5 mm Blades



## STANDARD SYSTEM WITH PULLER

Part Number	Description
uPump	Microinjector with External Pressure Source
PZMIII-MI	Stereo Microscope with LED Illuminated Base & Articulating Mirror
M4C	Microscope Stage Adapter
M3301-R or -L	Manual Manipulator, Right or Left Hand
PUL-1000	Microelectrode Puller
Z-MOLDS	Zebrafish Microinjection and Transplantation Molds
77020	Glass Handling Forceps, Straight
504507	WPI Swiss Tweezers, Acid-Resistant/Anti-Magnetic, #5
14003	Vannas Scissors, 8 cm (3.5"), Straight, 5 mm Blades



## BASIC SYSTEM WITHOUT PULLER

Part Number	Description
uPump	Microinjector with External Pressure Source
PZMIII-MI	Stereo Microscope with LED Illuminated Base & Articulating Mirror
M4C	Microscope Stage Adapter
M3301-R or -L	Manual Manipulator, Right or Left Hand
Z-MOLDS	Zebrafish Microinjection and Transplantation Molds
77020	Glass Handling Forceps, Straight
504507	WPI Swiss Tweezers, Acid-Resistant/Anti-Magnetic, #5
14003	Vannas Scissors, 8 cm (3.5"), Straight, 5 mm Blades



NANOLITER MICROINJECTION SYSTEM

Our customizable Nanoliter Microinjection System has everything you need to get started. **We can help you customize your system with many options and accessories.**

The basic system includes:

- Nanoliter 2020 Microinjection pump nanoliter injections
- LED lighted microscope base with a PZMIII Stereo Microscope and an articulating mirror
- Micromanipulator
- Many accessories

SMARTPZM Microscope/  
Lighted Base with articulating  
mirror, camera & view screen

M10 Magnetic Stand  
5052 Base (hidden  
under backdrop)

KITE Manual Micromanipulator

NANLITER2020 Injector with  
SMARTouch Controller

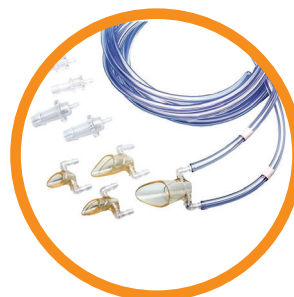
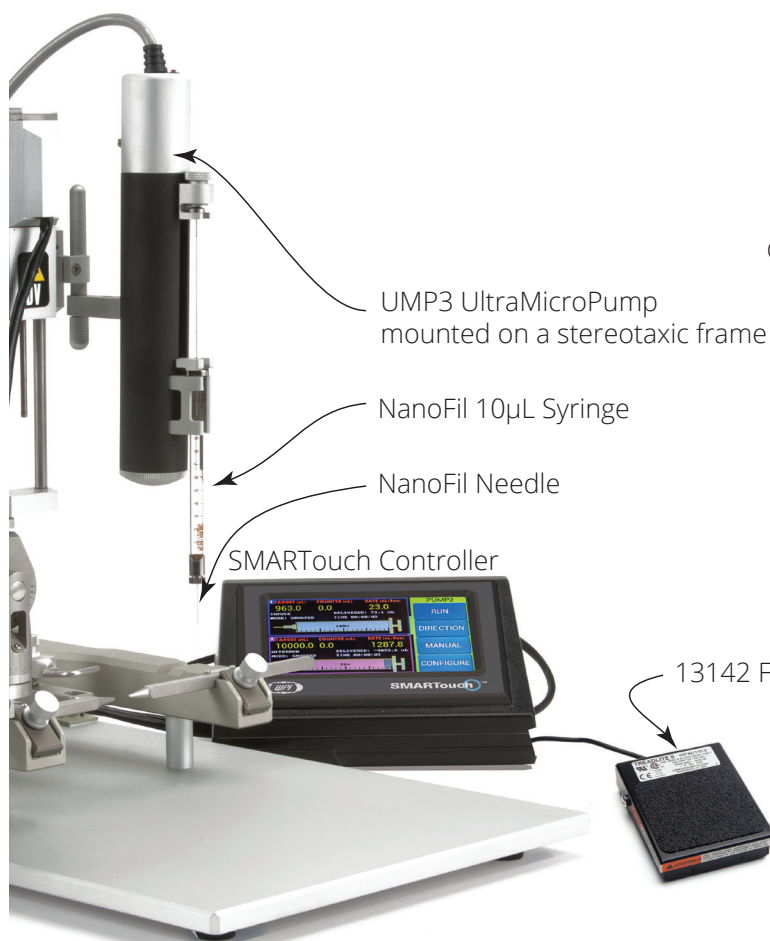


Part Number	Description
NANOLITER2020	Nanoliter 2020 Injection System
SMARTPZM	Stereo Microscope with LED Illuminated Base, Articulating Mirror, Camera & View Screen
KITE	Manual Manipulator, Right or Left Hand
M10	M10 Magnetic Stand
504949	Fire Polished Glass Capillaries, 3.5", pkg. of 300
13142	Foot Switch for the SMARTouch Controller
5052	10 Lb. Base Plate



# Neuroscience Application Packages

Our customizable Neuroscience Application Packages have everything you need to get started. **We can help you customize your system with many options and accessories.** We offer both stereotaxic injection packages and a neuroscience recording package for making extracellular recordings.



OC-ALLFM-KIT Face Mask Kit



EZ-B800 Anesthesia System



505351 Rat Digital Frame



505200 Standard Mouse & Rat Frame



503598 OmniDrill

## RAT STEREOTAXIC INJECTIONS SYSTEM

Part Number	Description
505351	Rat Digital Stereotaxic Frame
UMP3T-1	Microinjection Syringe Pump, one Pump and SMARTouch Controller
13142	Foot Switch for SMARTouch Controller
NANOFIL	Sub-Microliter Injection Syringe, 10 $\mu$ L
NF33-36BV or BL	NanoFil Needles, Assortment Kit 33g-36g, Beveled
503598	OmniDrill 35 Micro Drill
EZ-B800	EZ Basic Anesthesia System
OC-ALLFM-KIT	Rodent Facemask Kit for Anesthesia (Small, Medium, Large, Extra Large)

## MOUSE/MICE STEREOTAXIC INJECTIONS SYSTEM

Part Number	Description
505200	Standard Mouse & Rat Stereotaxic Frame
UMP3T-1	Microinjection Syringe Pump, one Pump and SMARTouch Controller
13142	Foot Switch for SMARTouch Controller
NANOFIL	Sub-Microliter Injection Syringe, 10 $\mu$ L
NF33-36BV or BL	NanoFil Needles, Assortment Kit 33g-36g, Beveled
503598	OmniDrill 35 Micro Drill
EZ-B800	EZ Basic Anesthesia System
OC-ALLFM-KIT	Rodent Facemask Kit for Anesthesia (Small, Medium, Large, Extra Large)

## UPGRADE ANY STEREOTAXIC INJECTION SYSTEM

Add-ons are sold separately.

Part Number	Description
UMP3T-1-EX1	UMP3T-1 Extended Warranty, 1 Year
UMP3T-1-EX2	UMP3T-1 Extended Warranty, 2 Year
505375	Temperature Control Box with Cable
505377	Rectal Temperature Probe





## NEUROSCIENCE RECORDING SYSTEM (EXTRACELLULAR RECORDING)

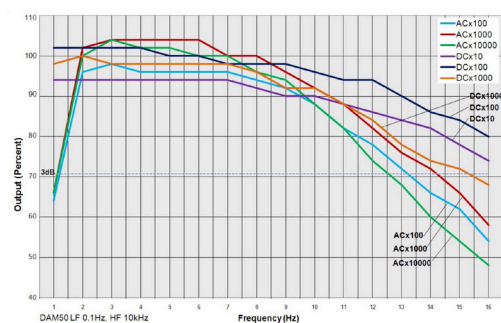
A typical application for metal electrodes would require a system like the one shown below. This system shows a differential configuration with an EP1 silver/silver chloride electrode pellet. The EP1 is suitable for use in a mouse cranial application. A sealed RC1 Ag/AgCl electrode pellet could be wired to the amplifier cable in place of the EP1, for another differential configuration.



Part Number	Description
DAM50	Extracellular Amplifier
MD4R	Dual Tool Holder Micromanipulator
PZMTIV-BS	Precision Stereo Zoom Trinocular Microscope on a Boom Stand
M3301EH	Replacement Electrode Holder
M10	Magnetic Stand
5052	10 Lb. Steel Base Plate
3517	2 Optional Shielded Modular Cable for DAM50 Bioamplifier
5470	0.031" Jack, 28 ga. Wire, 12", pkg. of 4

The following bandwidth charts for the DAM50 show the response of the amplifier when various filters and gains are used.

GAINS: This chart shows the standard 3dB frequency cutoff at maximum filter band pass.

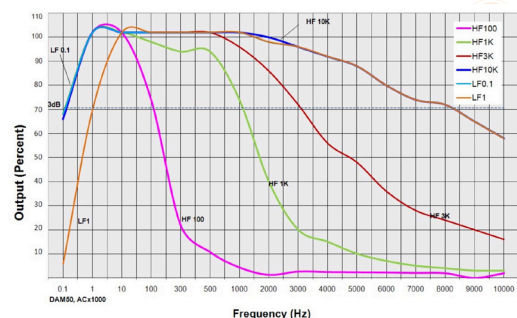


## UPGRADE NEUROSCIENCE RECORDING SYSTEM

Add-ons are sold separately.

Part Number	Description
SYS-DAM50-EX1	DAM50 Extended Warranty, 1 Year
SYS-DAM50-EX2	DAM50 Extended Warranty, 2 Year

FILTERS: Various low pass and high pass filters were applied at the AC x1000 gain setting to show the bandwidth of and actual DAM50 amplifier.



# Ophthalmology Application Package

Our customizable Ophthalmology Application Package has everything you need to get started. These kits are specially designed for eye research for retinal pigment epithelium (RPE) and intraocular (IO) injections, in addition to brain injection in mice. They are used exclusively with a NanoFil™ syringe and UMP3 to achieve accurate and repeatable oil-free injections down to sub-microliter ranges. **We can help you customize your system with many options and accessories.**



## Benefits

- No oil back filling necessary
- Four needle sizes included in the kit

## Applications

- Retinal pigment epithelium injection
- Mouse brain injection
- Intravitreal Injection (with RPE-KIT)
- Intraocular Injection (with IO-KIT)

## COMPLETE RETINAL INJECTIONS SYSTEM

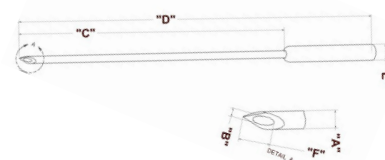
Part Number	Description
UMP3T-1	Microinjection Syringe Pump, one Pump and SMARTouch Controller
13142	Foot Switch for SMARTouch Controller
IO-KIT or RPE-KIT	Intraocular Injection Kit or Retinal Pigment Epithelial Injection Kit
503207	FrameWorks V-Base Kit - Small
NANOFIL	Sub-Microliter Injection Syringe, 10 µL

## UPGRADE YOUR SYSTEM

Add-ons are sold separately.

Part Number	Description
UMP3T-1-EX1	UMP3T-1 Extended Warranty, 1 Year
UMP3T-1-EX2	UMP3T-1 Extended Warranty, 2 Year

Nanofil Needle Dimensions



# Small Animal Surgery Support Package

Expensive research animals require specialized anesthesia and surgical equipment that is designed for their physiological needs. WPI offers a broad range of laboratory equipment and research products designed specifically for small animal physiology. Let us help you assemble a package with stereotaxic equipment, an anesthesia system with animal temperature control and a blood pressure monitoring system. We also offer testing equipment for pre-clinical trials involving mechanical, thermal and chemical stimuli with mice and rats to perform a variety drug efficacy studies.



Digital Stereotaxic Frame

Blood Pressure System



Mouse Dissecting Kit

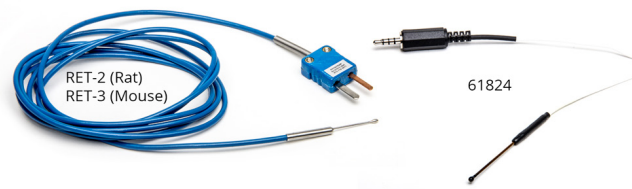


Animal Temperature Controller  
Heating Plate  
Mouse Rectal Probe

## SMALL ANIMAL SURGERY SYSTEM

Part Number	Description
505371	WPI Premium Digital Rat Stereotaxic Frame
EZ-B800	Basic Animal Anesthesia System
SYS-BP1	Blood Pressure Monitoring System
BLPR2	Blood Pressure Transducer and Cable
ATC2000	Animal Temperature Controller
61840	15x4 cm Heating Plate for the ATC2000
RET-2	Mouse Rectal Probe, Ball Tip
MOUSEKIT	Mouse Dissecting Kit with Portfolio

ATC2000 Accessories





# Save on Lab Supplies/Accessories for Every New Lab

Take advantage of steep discounts on surgical adhesives and lab accessories. Surgical instrument kits are also discounted for your new lab. Visit [www.wpiinc.com/newlab](http://www.wpiinc.com/newlab) to complete the New Lab Registration form and get started. A quote is required to get these New Lab discounts.

## ADHESIVES

Buy in bulk and save on these popular adhesives. The prices below reflect the purchase of the minimum bulk quantity.

Part Number	Description	Bulk Qty
503763	GLUture Topical Tissue Adhesive	5
VETBOND	Butyl Cyanoacrylate, Low Toxicity Adhesive	5
KWIK-SIL	Low Toxicity Silicone Adhesive	10
KWIK-CAST	Low Viscosity Silicone Sealant	10



## LIMITED REUSE BIOPSY PUNCHES

Our reusable biopsy punches are multi-purpose sampling tools designed with a retractable cutting cannula. They are easy to operate, efficient, safe, fast and precise. Our punches consists of a razor sharp stainless steel cutting tip. They are designed to cut, retrieve and store the cored samples from a source materials. They range in size from 0.35 – 8 mm. Punches are sold sterile and individually wrapped. Order in bulk (50 or 100 of a single size) and save up to 35% off the list price.

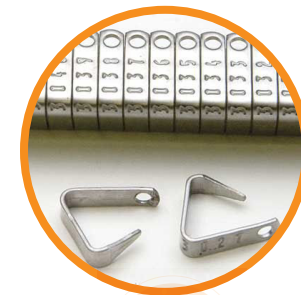
Part Number	Description	Bulk Qty
504528-504535,	Limited Reuse Biopsy Punches	50
504646-504651	Limited Reuse Biopsy Punches	100



## EAR TAGS

Save on popular ear tags for small animals. Made of 0.46 mm Monel alloy, they are 2.36 mm wide. Each package contains 100 sequentially numbered tags, ranging from 000 to 999, depending on the part numbers you choose. Or order in batches of 1000 to get numbers up to 4999.

Part Number	Description
501866-501875, 501893	Ear Tags for use with the 503292 applicator, pkg. of 100



## SURGICAL INSTRUMENT KITS

You have many options for surgical instrument kits, from economical student quality to German instrument kits specifically designed for the surgeries in your new lab. Take advantage of these discounts.

Part Number	Description
504167	Student Dissection Kit
501336	Student Veterinary Kit
504165	Student Botanical Kit
504196	Vet Tech Surgical Instrument ID Kit
MOUSEKIT	Mouse Dissecting Kit
KIT-EXOTIC	Exotic Animal Surgical Kit
501315	Micro-Surgical Kit
WPZ00018	Zebrafish Kit I
WPZ00218	Zebrafish Kit II



504167 - Student Dissection Kit



504196 - Vet Tech Surgical Instrument ID Kit



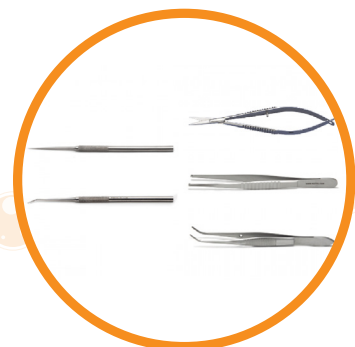
501336 - Student Veterinary Kit



504165 - Student Botanical Kit



KIT-EXOTIC - Exotic Animal Surgical Kit



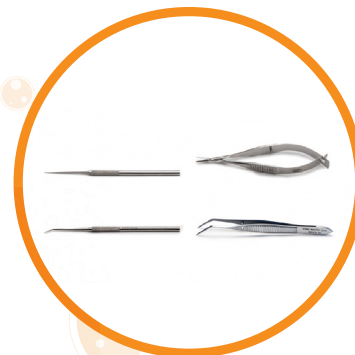
WPZ00218 - Zebrafish Kit II



MOUSEKIT - Mouse Dissecting Kit



501315 - Micro-Surgical Kit



WPZ00018 - Zebrafish Kit I



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[www.wpiinc.com/newlab](http://www.wpiinc.com/newlab)



WORLD PRECISION INSTRUMENTS

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