

# Laboratory Consumables and Surgical Instruments



**Enzymatic Digestion Kit**  
RWD LIFE SCIENCE



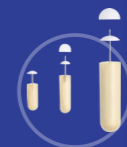
**Fiber-optic Cannulas**  
RWD LIFE SCIENCE



**Drug Delivery Cannula**  
RWD LIFE SCIENCE



**Tissue Processing Tube**  
RWD LIFE SCIENCE



**Mini Osmotic Pump**  
RWD LIFE SCIENCE



**Surgery Instrument**  
RWD LIFE SCIENCE



**LarSep Column**  
RWD LIFE SCIENCE

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# INTRODUCTION

# RWD

Established in 2002, RWD Life Science has been dedicated to being a leading manufacturer in research and veterinary equipments worldwide. We specialize in anesthesia, physiological and surgical equipments, used by pre-clinical researchers and veterinarians. Our mission is to provide high quality products and integrated solutions for our customers with prompt and professional support.

For more information about our supplies, such as Laser Speckle Contrast Imaging System, Anesthesia Machine, Ventilator, Stereotaxic Instrument, Syringe Pump, Fiber Photometry System and Surgical tools, please check our website: [www.rwdstco.com](http://www.rwdstco.com)

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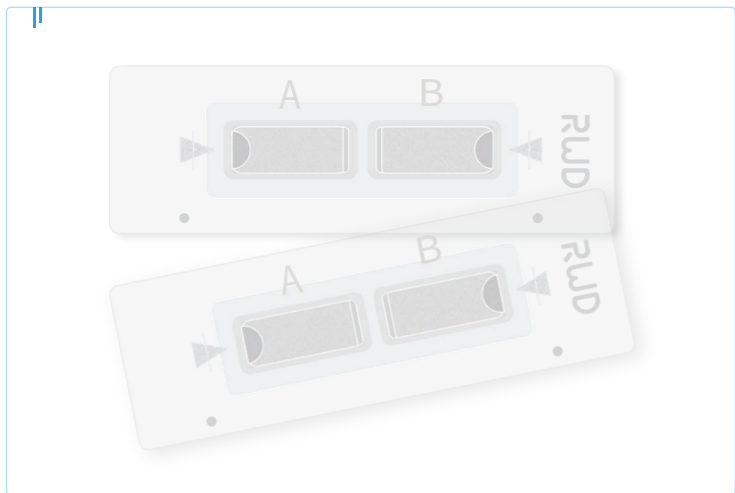
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## Disposable Slide

DISPOSABLE SLIDE



### Features:

- One-piece cover plate, no cover glass required.
- No manual cleaning required.
- Disposable design to avoid biological safety hazards.
- Balanced pressure design to ensure the uniformity of sample loading.
- Independent and easy-to-use packaging, to ensure the repeatability of the experiment.

### Order Information:

Model	Chamber volume	Number of chambers	Dimensions of slide	Dimensions of chamber	Package
DS-50	10 $\mu$ L	2	75*25*1.7mm	16.6*6*0.1mm	50pcs/box

## Tissue Processing Tube

TISSUE PROCESSING TUBE



### Features:

- Ethylene oxide(EO) sterilized.
- Independent packaging make it convenient for storage and use.

### Order Information:

Model	Sample volume	Buffer volume	Dimensions	Package
SCT-25	20-4000mg	0.3-10mL	35mm*89mm	25pcs/box
SCT-100	20-4000mg	0.3-10mL	35mm*89mm	100pcs/box

## Tissue Enzymatic Digestion Kit

TISSUE ENZYMATIC DIGESTION KIT



### Order Information:

Model	Product Description	Number of reactions
DHTE-5001	High Activity Tumor Tissue Enzymatic Digestion Kit (Mouse)	50T
DHNBE-5002	High Activity Neonatal Brain Enzymatic Digestion Kit (Mouse and Rat)	50T
DHABE-5003	High Activity Adult Brain Enzymatic Digestion Kit (Mouse and Rat)	50T
DHGT-5004	High Activity General Tissue Enzymatic Digestion Kit	50T
DHTEH-2505	High Activity Tumor Tissue Enzymatic Digestion Kit (Human)	25T
DHDR-5006	High Efficiency Debris Removal Kit	50T
DHIE-5007	High Activity Intestine Tissue Enzymatic Digestion Kit (Mouse)	50T
DHBTE-2508	High Activity Brain Tumor Enzymatic Digestion Kit	25T
DHWSE-2509	High Activity Whole Skin Enzymatic Digestion Kit (Mouse)	25T
DHAE-5010	High Activity Adipose Tissue Enzymatic Digestion Kit (Mouse and Rat)	50T

### Features:

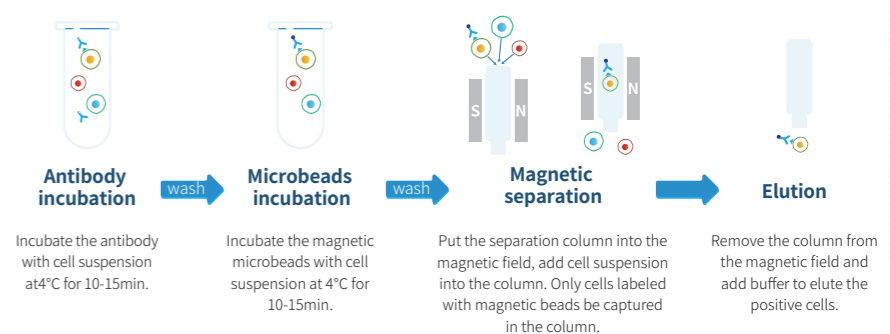
- Targeted optimization of enzymatic hydrolysis formula can ensure high cell viability.
- Preserving cell surface epitopes leads to no effect for downstream experiments.

## Magnetic Microbeads Cell Separation Products

MAGNETIC MICROBEADS CELL SEPARATION PRODUCTS



RWD cell separation products include self-developed magnetic microbeads cell separation kits and cell separation columns, which can obtain target cells with high purity and high viability through simple operation. Nano-sized magnetic beads do not need elution, and the separated cells can be directly used in downstream experiments such as flow cytometry, cell culture, single-cell sequencing, etc.



### Features:

- High purity, high viability and high recovery rate.
- Obtained cells are compatible with downstream applications.
- Mild, non-toxic, biodegradable.
- Efficient and convenient.

## Magnetic Microbeads Cell Separation Products

MAGNETIC MICROBEADS CELL SEPARATION PRODUCTS



### Order Information:

Model	Product Description	Size	Capacity
K1301-10	Mouse CD3+ Cell Separation Kit	1ml*2	for 1*10 <sup>9</sup> total cells
K1302-10	Mouse CD4+ Cell Separation Kit	1ml*2	for 1*10 <sup>9</sup> total cells
K1303-10	Mouse CD8+ Cell Separation Kit	1ml*2	for 1*10 <sup>9</sup> total cells
K1304-10	Mouse CD45+ Cell Separation Kit	1ml*2	for 2*10 <sup>9</sup> total cells
K1305-20	Mouse CD19+ Cell Separation Kit	1ml*2	for 2*10 <sup>9</sup> total cells
K1306-10	CD11b+ (Microglia) cell separation Kit	1ml*2	for 1*10 <sup>9</sup> total cells
K1201-10	Human CD3+ Cell Separation Kit(RUO)	1ml*2	for 1*10 <sup>9</sup> total cells
K1202-10	Human CD4+ Cell Separation Kit(RUO)	1ml*2	for 1*10 <sup>9</sup> total cells
K1203-10	Human CD8+ Cell Separation Kit(RUO)	1ml*2	for 1*10 <sup>9</sup> total cells
K1204-10	Human CD14+ Cell Separation Kit(RUO)	1ml*2	for 1*10 <sup>9</sup> total cells
K1205-10	Human CD45+ Cell Separation Kit(RUO)	1ml*2	for 1*10 <sup>9</sup> total cells
K1206-10	Human CD19+ Cell Separation Kit(RUO)	1ml*2	for 1*10 <sup>9</sup> total cells
K1207-10	Human NK Cell Isolation Kit(RUO)	2ml*2	for 1*10 <sup>9</sup> total cells
HCSC-25	LarSep Columns (25pcs/box)	25 pcs/box	/
HCSC-10	LarSep Columns (10pcs/box)	10 pcs/box	/
LSC-S1	LSC Separator (single channel)	1pcs	/
SS01	Separation stand	1 pcs	/
CSAK-01	Cell Separation assembly kit (single channel)	1 set	Including LarSep Columns (25pcs), LSC Separator (single channel) 1pcs, Separation stand 1pcs

## Osmotic Pumps

OSMOTIC PUMPS



### Features:

- Ensure continuous and uninterrupted administration, maintaining the preset speed for the administration of the animal.
- Storage capsules have good drug compatibility, and protection for short half-life drugs.
- Capsules have good biocompatibility and do not affect the physiology of animals.
- Easy to use, It allows one-time operation in an experiment instead of frequent operation.
- Avoid the stress caused by repeated administration, reducing the impact of non-experimental factors on the experimental results.
- Small size, can be applied to experiments on mice, neonatal rats and other small animal.
- Ensure that the drug is delivered to the target site accurately.

### Order Information:

Capsule (10pcs/box)	Drug capacity	100µl					200µl				2mL		
	Type	1003D	1001W	1002W	1004W	1006W	2003D	2001W	2002W	2004W	2mL1W	2mL2W	2mL4W
	Duration	3D	1W	2W	4W	6W	3D	1W	2W	4W	1W	2W	4W
	Pumping Rate (µL/hr)	1	0.5	0.25	0.125	0.083	2	1	0.5	0.25	10	5	2.5
Flow regulator (10pcs/box)	Draft tube	304 stainless steel material/flange					304 stainless steel material						
Cap		Without					PE material						
Disposable infusion needle	Infusion needle	Flat head for the injection of liquid											

\*Supplied with an incubator that can be switched freely

### Osmotic pump kit information (optional):

	Model	Description
Brain Infusion Kit	Bic-3	For 1-3mm deep brain area administration (10 Bags/ Package)
	Bic-5	For 3-5mm deep brain area administration (10 Bags/ Package)
	Bic-X (Customizable)	For 1-9mm deep brain area administration.(10 Bags/Package)
Catheter Delivery Kit	Mic	For long-distance muscle administration (10 Bags/ Package)

## Vascular Infusion and Sampling System for Small Animals

VASCULAR INFUSION AND SAMPLING SYSTEM FOR SMALL ANIMALS

The catheter is surgically inserted into the target location (jugular vein, carotid artery, bile duct, portal vein, etc.), and the Implant Button is then fixed subcutaneously, allowing simultaneous drug administration and blood sampling. It is suitable for manual continuous and repeated blood sampling and drug administration, long-term automatic drug administration and blood sampling by machine.

### Features:

- Suitable for up to 10 sampling sites such as jugular vein, carotid artery, femoral vein and bile duct.
- The design is compact and firm, not easy to be damaged by animals, and the biocompatibility has been verified by experiments.
- It can be matched with syringes, catheters and other sampling methods.
- Effectively reduce the stress reaction caused by repeated injection.



### Components



#### Implant Button

The Implant Button consists of transparent shell, magnet, felt and capillary tube. Catheter is connected to capillary tube and inserted into a blood vessel. The Button is implanted subcutaneously and fixed by suturing the epidermis.



#### Pharmport

The Pharmport consists of shell (red and white) and capillary tube, sizes: 25g and 22g. The Pharmport is connected with the Implant Button as a simple infusion and blood sampling device.



#### Catheter connector

The Catheter connector is composed of shell and capillary tube, size: 25G, 22G. For connecting Pharmport and PE tubes in vitro.



#### Syringe connector

Syringe connector is composed of transparent shell and capillary tube, with a size of 25G. The front end of the injection needle can be directly inserted into the Pharmport for infusion and blood sampling, the rear end can be connected with the standard syringe.



#### Implant Button Cap

The Implant Button cap is made of high quality duralumin alloy and magnet. When the Implant Button is not in use, The cap can be used to ensure that the injection end is not contaminated. The magnet allows the operator to quickly attach the cap to Implant Button.



#### Handling

The Handling is made of high quality duralumin alloy and magnet. Fix the animal with one end of the Handling to pull out the Implant Button Cap, and then use the other end (including magnet) to continue to fix the animal for infusion or blood sampling operation.



#### Catheter

The size of the catheter matches the capillary of the Implant Button, and the catheter can be inserted into the blood vessels of experimental animals. The node ensures that the catheter is not easy to fall off after implantation.

## Order Information: (Unit: mm)

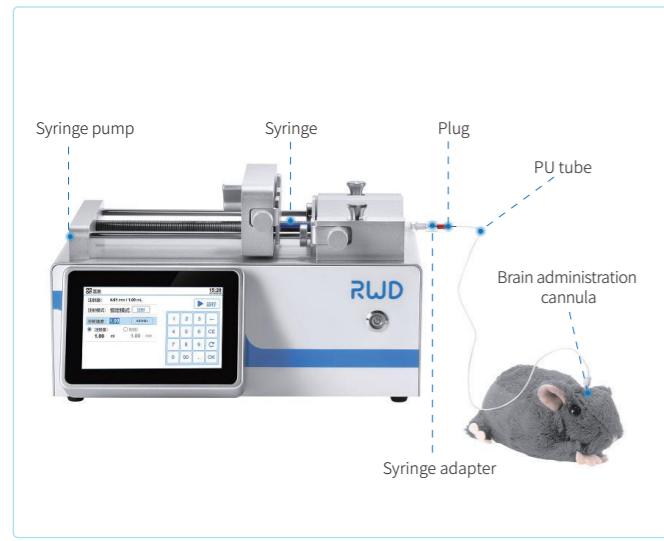
Category	Product Name	Model	specification	Description
CATHETER	Carotid Artery Catheters for Rats	PURCA	5pcs/pkg	Carotid Artery Catheters for Rats, PU, 105mm, IDxOD=0.31x0.64mm, fits 22ga, sleeve, 5pcs/pkg
	Jugular Vein Catheters for Rats	PURJV	5pcs/pkg	Jugular Vein Catheters for Rats, PU, 110mm, IDxOD=0.61x1.02mm, fits 22ga, sleeve, 5pcs/pkg
	Bile Duct Catheters for Rats	PURBD	5pcs/pkg	Bile Duct Catheters for Rats, PU, 281mm, IDxOD=0.31x0.64mm, fits 22ga, sleeve, 5pcs/pkg
	Portal Vein Catheters for Rats	PURPV	5pcs/pkg	Portal Vein Catheters for Rats, PU, 140mm, T-type, IDxOD=1.47x1.96mm, fits 22ga, sleeve, 5pcs/pkg
	Femoral Artery Catheters for Rats	PURFA	5pcs/pkg	Femoral Artery Catheters for Rats, PU, 305mm, IDxOD=0.31x0.64mm, fits 22ga, sleeve, 5pcs/pkg
	Femoral Vein Catheters for Rats	PURFV	5pcs/pkg	Femoral Vein Catheters for Rats, PU, 300mm, IDxOD=0.61x1.02mm, fits 22ga, sleeve, 5pcs/pkg
	Jugular Vein Catheters for Guinea+B26+B2+B28:B31	PUCJV	5pcs/pkg	Jugular Vein Catheters for Guinea pigs, PU, 127mm, IDxOD=0.61x1.02mm, fits 22ga, sleeve, 5pcs/pkg
	Carotid Artery Catheters for Guinea pigs	PUCCA	5pcs/pkg	Carotid Artery Catheters for Guinea pigs, PU, 127mm, IDxOD=0.31x0.64mm, fits 22ga, sleeve, 5pcs/pkg
	Carotid Artery Catheters for Mice	PUMCA	5pcs/pkg	Carotid Artery Catheters for Mice, PU, 51mm, IDxOD=0.18x0.36mm, fits 25ga, sleeve, 5pcs/pkg
	Jugular Vein Catheters for Mice	PUMJV	5pcs/pkg	Jugular Vein Catheters for Mice, PU, 54mm, IDxOD=0.42x0.69mm, fits 25ga, sleeve, 5pcs/pkg
	Bulk Catheter 22	BC-22	10m/pkg	Bulk Catheter 22, PU, IDxOD=0.61x1.02mm, 1m/pcs, 10pcs/pkg, fits 22ga
	Bulk Catheter 25	BC-25	10m/pkg	Bulk Catheter 25, PU, IDxOD=0.42x0.69mm, 1m/pcs, 10pcs/pkg, fits 25ga
	HANDLING TOOL	Handling	BH	1pcs/pkg
IMPLANT BUTTON	Implant Button(Single channel 25G for mice)	BMS25	5pcs/pkg	Implant Button, single channel 25G for mice, 5pcs/pkg
	Implant Button(Dual channel 25G/25G for mice)	BMD25/25	5pcs/pkg	Implant Button, dual channel 25G/25G for mice, 5pcs/pkg
	Implant Button(Single channel 22G for rats, white)	BRSW22	5pcs/pkg	Implant Button, single channel 22G for rats, white, 5pcs/pkg
	Implant Button(Single channel 22G for rats, red)	BRSR22	5pcs/pkg	Implant Button, single channel 22G for rats, red, 5pcs/pkg
	Implant Button(Dual channel 22G/22G for rats)	BRD22/22	5pcs/pkg	Implant Button, dual channel 22G/22G for rats, 5pcs/pkg

Category	Product Name	Model	specification	Description
IMPLANT BUTTON CAP	Implant Button Cap (Single channel for mice, silver)	CMSC-S	5pcs/pkg	Implant Button Cap, single channel for mice, silver, 5pcs/pkg
	Implant Button Cap(Single channel for mice, gold)	CMSC-G	5pcs/pkg	Implant Button Cap, single channel for mice, gold, 5pcs/pkg
	Implant Button Cap(Dual channel for mice, silver)	CMDC-S	5pcs/pkg	Implant Button Cap, dual channel for mice, silver, 5pcs/pkg
	Implant Button Cap (Dual channel for mice, gold)	CMDC-G	5pcs/pkg	Implant Button Cap, dual channel for mice, gold, 5pcs/pkg
	Implant Button Cap (Rats, silver)	CRSC-S	5pcs/pkg	Implant Button Cap, rats, silver, 5pcs/pkg
	Implant Button Cap (Rats, gold)	CRSC-G	5pcs/pkg	Implant Button Cap, rats, gold, 5pcs/pkg
CATHETER CONNECTOR	Catheter Connector(22G)	C22	6pcs/pkg	Catheter Connector, 22G, available to rats, 6pcs/pkg
	Catheter Connector(25G)	C25	6pcs/pkg	Catheter Connector, 25G, available to rats, 6pcs/pkg
TETHER	Tether(Single channel for mice)	TM-1	5pcs/pkg	Tether, single channel for mice, 5pcs/pkg
	Tether(Dual channel for mice)	TM-2	5pcs/pkg	Tether, dual channel for mice, 5pcs/pkg
	Tether(Single channel for rats, special for drug infusion)	TR-2	5pcs/pkg	Tether, single channel for rats, special for drug infusion, 5pcs/pkg
	Tether(Single channel for rats, special for blood collection)	TR-1dr	5pcs/pkg	Tether, dual channel for rats, 5pcs/pkg
	Tether(Dual channel for rats)	TR-1bl	5pcs/pkg	Tether, single channel for rats, special for blood collection, 5pcs/pkg
PHARMPORT	PharmPort(22G Red)	P22-R	5pcs/pkg	PharmPort, 22G, red, available to rats, 5pcs/pkg
	PharmPort(22G White)	P22-W	5pcs/pkg	PharmPort, 22G, white, available to rats, 5pcs/pkg
	PharmPort(25G Red)	P25-R	5pcs/pkg	PharmPort, 25G, red, available to mice, 5pcs/pkg
	PharmPort(25G White)	P25-W	5pcs/pkg	PharmPort, 25G, white, available to mice, 5pcs/pkg
SWIVEIS	Swivels Mount for Mice	SS1-22	1pcs/pkg	Multi-axis Counter-balanced Lever Arm for Mice
	Swivels Mount for Rats	SS1-25	1pcs/pkg	Multi-axis Counter-balanced Lever Arm for Rats
SWIVELS MOUNT	Single Channel Swivels 22G	MLA-M	1pcs/pkg	Single Channel Swivels 22G, available to rats
	Single Channel Swivels 25G	MLA-R	1pcs/pkg	Single Channel Swivels 25G, available to mice
BILE LOOP SYRINGE CONNECTOR	Bile Loop	DZXHQ	5pcs/pkg	Bile Loop, 5pcs/pkg
	Syringe Connector	SC-1	6pcs/pkg	For connection to the syringe
KITS	Rat Jugular Vein Implant Kit	RJV-P1	/	Rat Jugular Vein Implant Kit, 10 sets, single channel
	Rat Carotid Artery Implant Kit	RCA-B1	/	Rat Carotid Artery Implant Kit, 10 sets, single channel
	Mouse Jugular Vein Implant Kit	MJV-P1	/	Mouse Jugular Vein Implant Kit, 10 sets, single channel
	Mouse Carotid Artery Implant Kit	MAC-B1	/	Mouse Carotid Artery Implant Kit, 10 sets, single channel

## Microinjection Cannula

### MICROINJECTION CANNULA

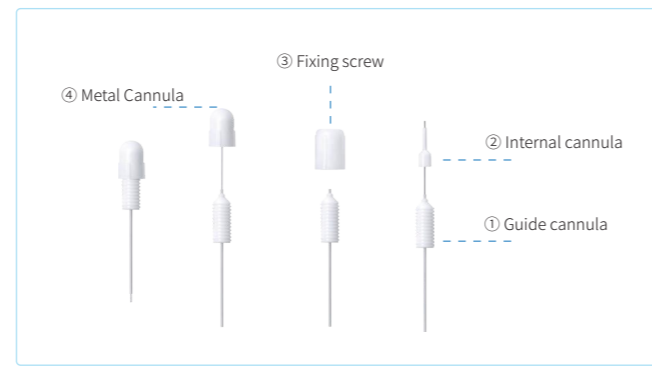
The microinjection cannula is designed for stereotaxically implant the guide cannula in the targeted brain region of the experimental animals for acute and chronic intracranial drug administration. RWD offers customized services for users, the users can customize according to specific experimental requirements.



### Features:

- One implantation for multiple drug administration, protecting the animal's brain from repeated injury.
- The animals can be administered while awake and for the subsequent experiments.
- Different specifications are available for precise drug administration in different regions of rat and mouse brains.
- Single cannula and double cannula are available to meet requirements for injections in unilateral brain regions or bilateral brain regions.

### composition:



#### ① Guide cannula

Guide cannula consists of a threaded cylindrical plastic pedestal and a stainless steel tube. It has to be preimplanted into brain and fixed with dental cement. Both dummy cannula and internal cannula can be inserted into guide cannula individually.



#### ② Internal cannula

Internal cannula can be fixed into guide cannula through fixing screw and its tail end is connected with PU tube for injections. The length can be customized.



#### ③ Fixing screw

Fixing screw fixes internal cannula to guide cannula.



#### ④ Screw

Screw provides the dental cement with a point of strength to prevent it from falling off.



#### ⑤ Dummy cannula

Stainless steel wire and threaded plastic cap make a dummy cannula. It can be inserted into guide cannula and fixed by screw to seal the guide cannula and prevent outflow of tissue fluid after injection. The length of the stainless steel wire can be customized.



#### ⑥ Metal Cannula

The metal materials avoid biting after the cannula implantation



#### ⑦ PU Tube

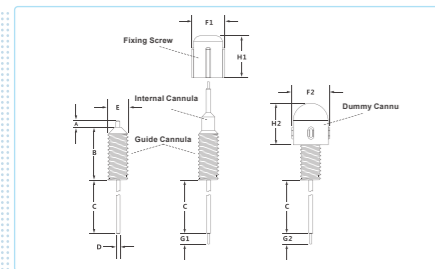
PU tube connects with the internal cannula on one end and syringe on the other end for drug injection.



#### ⑧ Plug

Plug connects with PU tube on the one end and with syringes of different sizes on the other end.

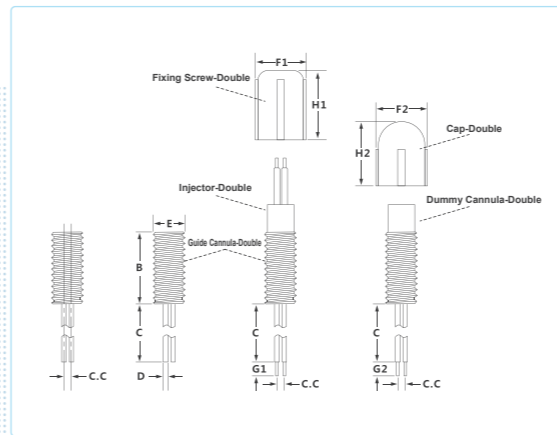
**Cording Diagram:**



- A - The length of the stainless steel tubing above the plastic pedestal.
- B - The height of the cylindrical plastic base.
- C - The length of the stainless steel tubing below the plastic pedestal, can be customized.
- D - External diameter of stainless steel guide cannulas.
- E - External diameter of cylindrical plastic base.
- F1 - External diameter of Fixing screw.
- F2 - External diameter of Dummy Cannulas.
- H1 - Height of Fixing screw.
- H2 - Height of Dummy Cannulas.
- G1 - The internal cannulas projection length beyond the guide cannulas tip, can be customized.
- G2 - The dummy cannulas projection length beyond the guide cannulas tip, can be customized.

Matching	Guide Cannula (ODxID)	Internal Cannula (ODxID)	Cannula Dummy (plastic OD)	Fixing Screw	A	B	E	Range of customized length			Pharmport		Screws	Phillips Screwdriver
								C	G1	G2	Dummy Cannula (metal OD)	PE Tube		
Cannula	62001 (23G) (0.64x0.45)	62201 (0.41x0.25)	62101 0.4	62502	0.6	6	3.5	1-14.5	0, 0.5-2.5	0, 0.5-1.0	62106 0.4	BC-22	62513	62999
	62002 (24G) (0.56x0.38)	62202 (0.36x0.20)	62102 0.3					1-14.5	0, 0.5-2.5	0, 0.5-1.0	62107 0.3			
	62003 (26G) (0.48x0.34)	62203 (0.30x0.14)	62102 0.3					1-14.5	0, 0.5-2.5	0, 0.5-1.0	62107 0.3			
	62004 (27G) (0.41x0.25)	62204 (0.21x0.10)	62104 0.2					1-14.5	0, 0.5-2.5	0, 0.5-1.0	62108 0.2			
	62005 (22G) (0.71x0.45)	62201 (0.41x0.25)	62101 0.2					1-14.5	0, 0.5-2.5	0, 0.5-1.0	62106 0.4			
	62006 (22G) (0.71x0.45)	62201 (0.41x0.25)	62101 0.4					1-12.5	0, 0.5-2.5	0, 0.5-1.0	62106 0.4			
	62007 (23G) (0.64x0.45)	62201 (0.41x0.25)	62101 0.4					1-12.5	0, 0.5-2.5	0, 0.5-1.0	62106 0.4			
	62009 (26G) (0.48x0.34)	62203 (0.30x0.14)	62102 0.3					1-12.5	0, 0.5-2.5	0, 0.5-1.0	62107 0.3			
	62010 (27G) (0.41x0.25)	62204 (0.21x0.10)	62104 0.2					1-12.5	0, 0.5-2.5	0, 0.5-1.0	62108 0.2			
	62011 (22G) (0.71x0.45)	/	62109 0.4	/	5	6	1-14.5	/	0, 0.5-1.0	/	BC-22			
	62014 (26G) (0.48x0.34)	/	62110 0.3	/	5	6	1-14.5	/	0, 0.5-1.0	/	BC-25			
	62015 (27G) (0.41x0.25)	/	62111 0.2	/	5	6	1-14.5	/	0, 0.5-1.0	/	62330			

**Cording Diagram:**



- B - Height of cylindrical plastic pedestal which is 7.8mm for Series I, II & IV and 5.5mm for Series II
- C - Length of stainless steel tube below the cylindrical plastic pedestal. The default value is 13.7mm for Series 1 & II, 20.0mm for Series I and 10.0mm for Series V. The length can be customized with default value as maximum
- C.C - Center distance between double guide cannulas, double dummy cannulas and double injectors. These 3 values should be the same in one system. It can be customized (range: 0.5mm-3.0mm)
- D - Outer diameter of stainless steel tube and it has 3 sizes: 0.48mm for Series 1 & I, 0.64mm for Series II and 0.41mm for Series VE-Outer diameter of the cylindrical plastic pedestal and it comes with 3.5mm or 5.0mm. t is related to the outer diameter and centre distance between double guide cannulas
- F1 - Outer diameter of fixing screw and it comes with 5.0mm (when E=3.5mm) or 7.0mm (when E=5.00mm)
- F2 - Outer diameter of guide cannula cap and it comes with 5.5mm (when E=3.5mm) or 7.0mm (when E=5.0mm)
- H1 - Height of the fixing screw and it comes with 7.5mm (when E=3.5mm) and 8.0mm (when E=5.0mm)
- H2 - Height of guide cannula cap and it comes with 7.00mm (when E=3.5mm) and 7.5mm (when E=5.0mm)
- \* G1 - Length of protruding part after internal cannula is inserted into guide cannula. This length can be customized
- \* G2 - Length of protruding part after dummy cannula is inserted into guide cannula. This length can be customized

**Ordering Instructions:**

- Determine the target brain region for drug administration and then determine target values of C, C.C, G1 and G2. These values can not exceed the default ones. Please refer to :
- part of comments of cording diagram for more detail.
  - C: Maximal customized length is 13.7mm for Series I & II, 20.0mm for Series II and 10.0mm for Series IV.
  - C.C: Customized range is 0.6mm-3.2mm.
  - G1: Maximal customized length is 6.0mm for Series I, 4.0mm for Series II, 8.0mm for Series II and 4.0mm for Series IV\* G2: Maximal customized length is 2.0mm for Series I, 5.0mm for Series II, 4.0mm for Series II and 5.0mm for Series IV

**Series I: Recommended for rat or mice**

Matching	C.C	Guide Cannula	Dummy Cannula	Internal Cannula	Dust Cap	Fixing Screw	E	Range of customized length			Optional		Screws	Phillips Screwdriver
								C	G1	G2	CannulaDummy (metal OD)	PU Tube		
Bilateral Guide Cannula (26G) (0.48×0.34)	0.6	62022	62122	62250	62523	62521	3.5	1-12	0,0.5-8	0,0.5-3.0	62525	BC-22	62513	62999
	0.8	62023	62123	62223										
	1.0	62024	62124	62224										
	1.2	62025	62125	62225										
	1.4	62027	62127	62227										
	1.5	62028	62128	62228										
	1.6	62029	62129	62229										
	1.8	62030	62130	62230										
	2.0	62031	62131	62231										
	2.2	62072	62150	62272										
	2.4	62073	62151	62273										
		2.6	62074	62152	62274	62527	62528	5.5			/			
	3.0	62075	62153	62275										
	3.2	62076	62154	62276										

**Series II: Recommended for rat**

Matching	C.C	Guide Cannula	Dummy Cannula	Internal Cannula	Dust Cap	Fixing Screw	E	Range of customized length			Optional		Screws	Phillips Screwdriver
								C	G1	G2	CannulaDummy (metal OD)	PU Tube		
Bilateral Guide Cannula (23G) (0.64×0.45)	0.8	62037	62137	62237	62523	62521	3.5	1-18	0,0.5-6	0,0.5-7.0	62525	BC-22	62513	62999
	1.0	62038	62138	62238										
	1.2	62039	62139	62239										
	1.4	62041	62141	62241										
	1.5	62042	62142	62242										
	1.8	62043	62143	62243										
		2.0	62077	62155	62277	62527	62528	5.5			/			
		2.2	62078	62156	62278									
		2.4	62079	62157	62279									
		3.0	62080	62158	62280									
	3.2	62081	62159	62281										

**Series III: Recommended for mice**

Matching	C.C	Guide Cannula	Dummy Cannula	Internal Cannula	Dust Cap	Fixing Screw	E	Range of customized length			Optional		Screws	Phillips Screwdriver
								C	G1	G2	CannulaDummy (metal OD)	PU Tube		
Bilateral Guide Cannula (26G) (0.48×0.34)	0.8	62052	62123	62223	62523	62521	3.5	1-12	0,0.5-8	0,0.5-3.0	62525	BC-22	62513	62999
	1.0	62053	62124	62224										
	1.2	62054	62125	62225										
	1.4	62056	62127	62227										
	1.5	62057	62128	62228										
	1.6	62058	62129	62229										
	1.8	62059	62130	62230										
	2.0	62060	62131	62231										

**Series IV: Recommended for mice**

Matching	C.C	Guide Cannula	Dummy Cannula	Internal Cannula	Dust Cap	Fixing Screw	E	Range of customized length			Optional		Screws	Phillips Screwdriver
								C	G1	G2	CannulaDummy (metal OD)	PU Tube		
Bilateral Guide Cannula (27G) (0.41×0.24)	0.6	62062	62162	62251	62523	62521	3.5	1-13	0,0.5-1	0,0.5-2.0	62525	BC-22	62513	62999
	0.8	62063	62163	62263										
	1.0	62064	62164	62264										
	1.2	62065	62165	62265										
	1.4	62067	62167	62267										
	1.5	62068	62168	62268										
	1.6	62069	62169	62269										
	1.8	62070	62170	62270										
	2.0	62071	62171	62271										

## Standard Thick/ Wall Borosilicate Glass with Filament

STANDARD THICK/ WALL BOROSILICATE GLASS WITH FILAMENT

- Glass microelectrodes used in experiments such as patch clamp pulling and microinjection.
- The filament in the glass not only provides capillary action for quick filling of the micropipette, it also helps to reduce the incidence of air bubbles when introducing solution into the pipette.
- Use box packing, easy to use and save.
- Various models are optional, each box of 200.

### Order information:

Number	Model	Outside Diameter(O.D)	Inside Diameter(I.D)	Overall Length
1	B-150110-10F	1.5mm	1.1mm	100mm
2	B-15086-10F	1.5mm	0.86mm	100mm
3	B-12094-10F	1.2mm	0.94mm	100mm
4	B-12069-10F	1.2mm	0.69mm	100mm
5	B-10078-10F	1.0mm	0.78mm	100mm
6	B-10050-10F	1.0mm	0.50mm	100mm
7	B-150110-8.5F	1.5mm	1.1mm	85mm
8	B-15086-8.5F	1.5mm	0.86mm	85mm
9	GC-3.5	8.89cm	1.14mm	0.53mm
10	GC-7	17.78cm	1.14mm	0.53mm



## Box Filaments

BOX FILAMENTS

- Platinum-iridium alloy(platinum90%, iridium10%).
- An electric current is applied to the temperature of the heating sheet to soften the capillary glass tube.

### Order information:

Number	Model	Product description (W× L of square box)
1	HF-3025B	2.5 X 3.0mm
2	HF-3030B	3.0 X 3.0mm
3	HF-2545B	4.5 X 2.5mm



## Gas Filter Canister

GAS FILTER CANISTER

Used to absorb isoflurane, sevoflurane and enflurane and other gases disposable, large and small size are available, large canister (net weight: 800g)absorb 200g gas; small canister (net weight: 250g) absorb 50g gas.

### Order information:

Model	R510-31-6	R510-31S-6
Product Description	Gas Filter Canister, Large, pkg of 6pcs	Gas Filter Canister, Small, pkg of 6pcs



## Isoflurane(For Veterinary Use)

ISOFLURANE(FOR VETERINARY USE)

Anesthesia induction and recovery were rapid, stable, and controllable, which met the requirements of animal welfare. It had little effect on the physiological indexes and vital signs of animals. The chemical properties are stable, and the body metabolic rate is low, which is suitable for various experiments.

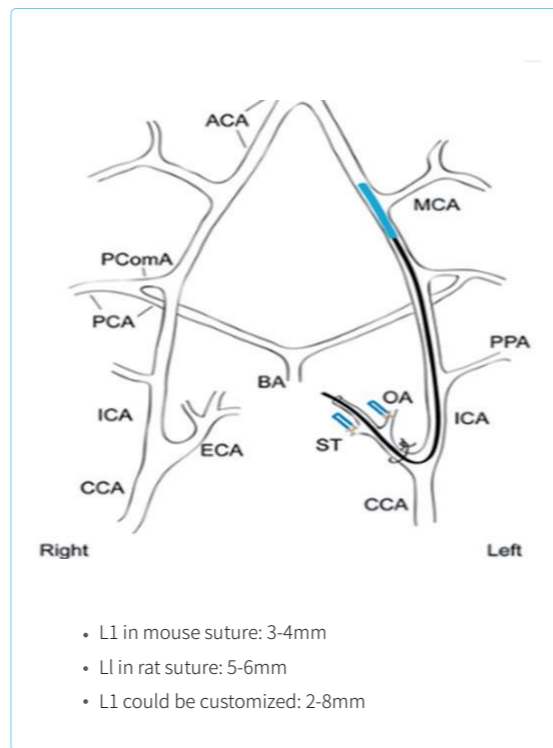
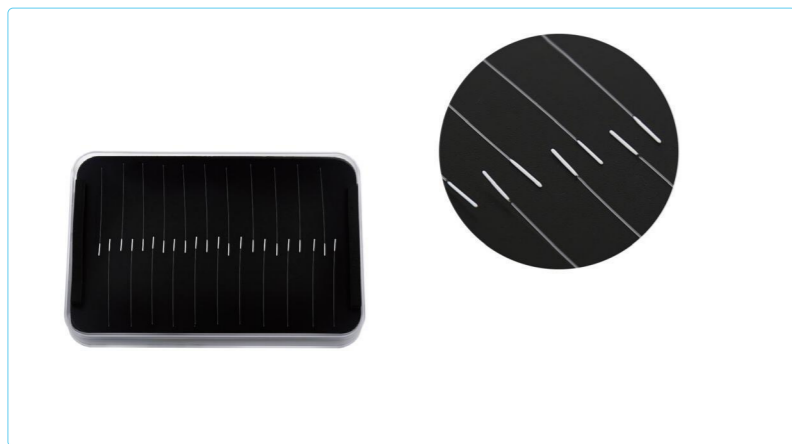
Model	Product Description
R510-22-10	Isoflurane for Scientific Research Experiments, 100ml, pkg of 10pcs



## MCAO Sutures

### MCAO SUTURES

RWD MCAO suture utilizes high-quality nylon thread to induce ischemic stroke model. The within-group variation of stroke models can be reduced by the super smooth surface and evenness of RWD suture. Without rupturing the vesicle, RWD suture makes its insertion into the animal brain much easier. The stability is also increased for the cerebral ischemia modeling. Diameters of silicone-rubber coated part range from 0.19mm to 0.44mm; Length of suture from 2-3cm.



### OrderInformation:

Number	Model	Diameter of Head end (mm)	Silicone head length (mm)	Diameter of suture body (mm)	Total Length (mm)	Animal's weight (g)	Packing (pcs)
1	MSMC19B007PK50	0.17~0.19	3~4	0.07	30	15~20g	50
2	MSMC19B008PK50	0.17~0.19	3~4	0.08	30	15~20g	50
3	MSMC19B100PK50	0.17~0.19	3~4	0.1	30	15~20g	50
4	MSMC21B007PK50	0.20~0.21	3~4	0.07	30	21~25g	50
5	MSMC21B008PK50	0.20~0.21	3~4	0.08	30	21~25g	50
6	MSMC21B100PK50	0.20~0.21	3~4	0.1	30	21~25g	50
7	MSMC21B120PK50	0.20~0.21	3~4	0.12	30	21~25g	50
8	MSMC23B007PK50	0.22~0.23	3~4	0.07	30	26~30g	50
9	MSMC23B008PK50	0.22~0.23	3~4	0.08	30	26~30g	50
10	MSMC23B100PK50	0.22~0.23	3~4	0.1	30	26~30g	50
11	MSMC23B120PK50	0.22~0.23	3~4	0.12	30	26~30g	50
12	MSMC25B120PK50	0.24~0.25	3~4	0.12	30	31~35g	50
13	MSMC25B150PK50	0.24~0.25	3~4	0.15	30	31~35g	50
14	MSMC26B150PK50	0.25~0.26	3~4	0.15	30	>35g	50
15	MSRC32B200PK50	0.31~0.32	5~6	0.2	50	<200g	50
16	MSRC35B200PK50	0.33~0.35	5~6	0.2	50	200~250g	50
17	MSRC37B200PK50	0.36~0.37	5~6	0.2	50	251~280g	50
18	MSRC40B200PK50	0.38~0.40	5~6	0.2	50	281~330g	50
19	MSRC42B200PK50	0.41~0.42	5~6	0.2	50	331~400g	50
20	MSRC45B200PK50	0.43~0.45	5~6	0.2	50	>400g	50

## Fiber-optic Cannulas

FIBER-OPTIC CANNULAS



### Features:

- Material: Ceramic, Optical fiber
- Type: White Series/Black Series
- Applicable wavelength: 400-2200nm
- Core diameter: 100um, 200um, 300um, 400um
- Numerical aperture: 0.22, 0.39, 0.50
- Outer diameter: 1.25mm (6.4mm long), 2.5mm (10.5mm long)
- Optical fiber length: 2mm-25mm (Φ1.25mm), 2mm-20mm (Φ2.5mm), step 0.5mm (Other lengths can be customized)
- Low auto-fluorescence

### Order Information:

No.	Model	Product Description
1	R-FOC-L200C-39NA	Fiber Optic Cannulae with Φ1.25 mm Ceramic Ferrule, 200um Core, 0.39NA, 20/pkg
2	R-FOC-L300C-39NA	Fiber Optic Cannulae with Φ1.25 mm Ceramic Ferrule, 300um Core, 0.39NA, 20/pkg
3	R-FOC-L400C-39NA	Fiber Optic Cannulae with Φ1.25 mm Ceramic Ferrule, 400um Core, 0.39NA, 20/pkg
4	R-FOC-F200C-39NA	Fiber Optic Cannulae with Φ2.5 mm Ceramic Ferrule, 200um Core, 0.39NA, 20/pkg
5	R-FOC-F300C-39NA	Fiber Optic Cannulae with Φ2.5 mm Ceramic Ferrule, 300um Core, 0.39NA, 20/pkg
6	R-FOC-F400C-39NA	Fiber Optic Cannulae with Φ2.5 mm Ceramic Ferrule, 400um Core, 0.39NA, 20/pkg
7	R-FOC-L200C-22NA	Fiber Optic Cannulae with Φ1.25 mm Ceramic Ferrule, 200um Core, 0.22NA, 20/pkg
8	R-FOC-L300C-22NA	Fiber Optic Cannulae with Φ1.25 mm Ceramic Ferrule, 300um Core, 0.22NA, 20/pkg
9	R-FOC-L400C-22NA	Fiber Optic Cannulae with Φ1.25 mm Ceramic Ferrule, 400um Core, 0.22NA, 20/pkg
10	R-FOC-F200C-22NA	Fiber Optic Cannulae with Φ2.5 mm Ceramic Ferrule, 200um Core, 0.22NA, 20/pkg
11	R-FOC-F300C-22NA	Fiber Optic Cannulae with Φ2.5 mm Ceramic Ferrule, 300um Core, 0.22NA, 20/pkg
12	R-FOC-F400C-22NA	Fiber Optic Cannulae with Φ2.5 mm Ceramic Ferrule, 400um Core, 0.22NA, 20/pkg
13	R-FOC-L200C-50NA	Fiber Optic Cannulae with Φ1.25 mm Ceramic Ferrule, 200um Core, 0.50NA, 20/pkg
14	R-FOC-F200C-50NA	Fiber Optic Cannulae with Φ2.5 mm Ceramic Ferrule, 200um Core, 0.50NA, 20/pkg
15	R-FOC-L400C-50NA	Fiber Optic Cannulae with Φ1.25 mm Ceramic Ferrule, 400um Core, 0.50NA, 20/pkg
16	R-FOC-F400C-50NA	Fiber Optic Cannulae with Φ2.5 mm Ceramic Ferrule, 400um Core, 0.50NA, 20/pkg
17	R-FOC-BL200C-39NA	Fiber Optic Cannulae(Black) with Φ1.25 mm Ceramic Ferrule, 200um Core, 0.39NA, 20/pkg

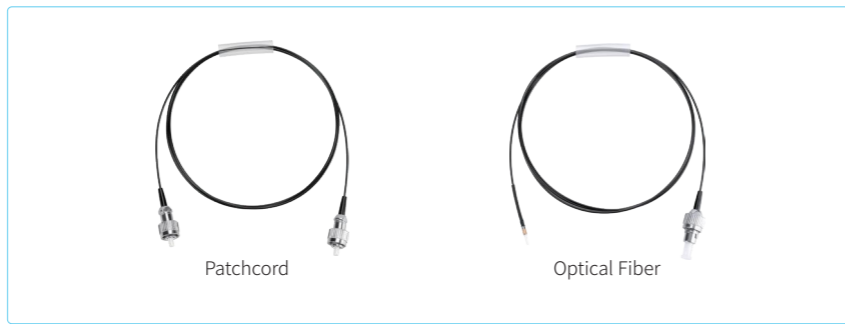
No.	Model	Product Description
18	R-FOC-BL300C-39NA	Fiber Optic Cannulae(Black) with Φ1.25 mm Ceramic Ferrule, 300um Core, 0.39NA, 20/pkg
19	R-FOC-BL400C-39NA	Fiber Optic Cannulae (Black)with Φ1.25 mm Ceramic Ferrule, 400um Core, 0.39NA, 20/pkg
20	R-FOC-BF200C-39NA	Fiber Optic Cannulae (Black)with Φ2.5 mm Ceramic Ferrule, 200um Core, 0.39NA, 20/pkg
21	R-FOC-BF300C-39NA	Fiber Optic Cannulae (Black)with Φ2.5 mm Ceramic Ferrule, 300um Core, 0.39NA, 20/pkg
22	R-FOC-BF400C-39NA	Fiber Optic Cannulae (Black)with Φ2.5 mm Ceramic Ferrule, 400um Core, 0.39NA, 20/pkg
23	R-FOC-BL100C-22NA	Fiber Optic Cannulae (Black, yellow nylon coating)with Φ1.25 mm Ceramic Ferrule, 100um Core, 0.22NA, 20/pkg
24	R-FOC-BL200C-22NA	Fiber Optic Cannulae (Black, yellow nylon coating)with Φ1.25 mm Ceramic Ferrule, 200um Core, 0.22NA, 20/pkg
25	R-FOC-BL300C-22NA	Fiber Optic Cannulae (Black, yellow nylon coating)with Φ1.25 mm Ceramic Ferrule, 300um Core, 0.22NA, 20/pkg
26	R-FOC-BL400C-22NA	Fiber Optic Cannulae (Black, yellow nylon coating)with Φ1.25 mm Ceramic Ferrule, 400um Core, 0.22NA, 20/pkg
27	R-FOC-BF100C-22NA	Fiber Optic Cannulae (Black, yellow nylon coating)with Φ2.5 mm Ceramic Ferrule, 100um Core, 0.22NA, 20/pkg
28	R-FOC-BF200C-22NA	Fiber Optic Cannulae (Black, yellow nylon coating)with Φ2.5 mm Ceramic Ferrule, 200um Core, 0.22NA, 20/pkg
29	R-FOC-BF300C-22NA	Fiber Optic Cannulae (Black, yellow nylon coating)with Φ2.5 mm Ceramic Ferrule, 300um Core, 0.22NA, 20/pkg
30	R-FOC-BF400C-22NA	Fiber Optic Cannulae (Black, yellow nylon coating)with Φ2.5 mm Ceramic Ferrule, 400um Core, 0.22NA, 20/pkg
31	R-FOC-BL200C-50NA	Fiber Optic Cannulae (Black)with Φ1.25 mm Ceramic Ferrule, 200um Core, 0.50NA, 20/pkg
32	R-FOC-BF200C-50NA	Fiber Optic Cannulae (Black)with Φ2.5 mm Ceramic Ferrule, 200um Core, 0.50NA, 20/pkg
33	R-FOC-BL400C-50NA	Fiber Optic Cannulae (Black)with Φ1.25 mm Ceramic Ferrule, 400um Core, 0.50NA, 20/pkg
34	R-FOC-BF400C-50NA	Fiber Optic Cannulae (Black)with Φ2.5 mm Ceramic Ferrule, 400um Core, 0.50NA, 20/pkg

## Patchcord and Optical Fiber

PATCHCORD AND OPTICAL FIBER

### Features:

- Low insertion loss • Good repeatability • High return loss
- Stable temperature • Low auto-fluorescence
- Good mutual insertion performance • Optional fiber
- Applicable wavelength: 400nm-1100nm
- Numerical aperture: 0.22, 0.39, 0.50
- Default length is 1m, other length:1.5-5m, step 0.5m (customized)
- Core diameter: 100μm, 200μm, 300μm, 400μm



### Order Information:

Model	Product Description
R-FC-PC-N2-100-L1	FC/PC Optical Fiber Patch Cables(m) - 100μm,0.22NA.1m
R-FC-PC-N2-200-L1	FC/PC Optical Fiber Patch Cables(m) - 200μm,0.22NA.1m
R-FC-PC-N2-300-L1	FC/PC Optical Fiber Patch Cables(m) - 300μm,0.22NA.1m
R-FC-PC-N2-400-L1	FC/PC Optical Fiber Patch Cables(m) - 400μm,0.22NA.1m
R-FC-PC-N3-200-L1	FC/PC Optical Fiber Patch Cables(m) - 200μm,0.39NA.1m
R-FC-PC-N3-300-L1	FC/PC Optical Fiber Patch Cables(m) - 300μm,0.39NA.1m
R-FC-PC-N3-400-L1	FC/PC Optical Fiber Patch Cables(m) - 400μm,0.39NA.1m
R-FC-PC-N5-200-L1	FC/PC Optical Fiber Patch Cables(m) - 200μm,0.50NA.1m
R-FC-PC-N5-400-L1	FC/PC Optical Fiber Patch Cables(m) - 400μm,0.50NA.1m
R-FC-L-N2-100-L1	Optic Fiber(m), FC/PC Adapter with 1.25 mm Ceramic Ferrule, 100um Core,0.22NA.1m
R-FC-L-N2-200-L1	Optic Fiber(m), FC/PC Adapter with 1.25 mm Ceramic Ferrule, 200um Core,0.22NA.1m

Model	Product Description
R-FC-L-N2-300-L1	Optic Fiber(m), FC/PC Adapter with 1.25 mm Ceramic Ferrule, 300um Core,0.22NA.1m
R-FC-L-N2-400-L1	Optic Fiber(m), FC/PC Adapter with 1.25 mm Ceramic Ferrule, 400um Core,0.22NA.1m
R-FC-P-N2-100-L1	Optic Fiber(m), FC/PC Adapter with 2.5 mm Ceramic Ferrule, 100um Core,0.22NA.1m
R-FC-P-N2-200-L1	Optic Fiber(m), FC/PC Adapter with 2.5 mm Ceramic Ferrule, 200um Core,0.22NA.1m
R-FC-P-N2-300-L1	Optic Fiber(m), FC/PC Adapter with 2.5 mm Ceramic Ferrule, 300um Core,0.22NA.1m
R-FC-P-N2-400-L1	Optic Fiber(m), FC/PC Adapter with 2.5 mm Ceramic Ferrule, 400um Core,0.22NA.1m
R-FC-L-N3-200-L1	Optic Fiber(m), FC/PC Adapter with 1.25 mm Ceramic Ferrule, 200um Core,0.39NA.1m
R-FC-L-N3-300-L1	Optic Fiber(m), FC/PC Adapter with 1.25 mm Ceramic Ferrule, 300um Core,0.39NA.1m
R-FC-L-N3-400-L1	Optic Fiber(m), FC/PC Adapter with 1.25 mm Ceramic Ferrule, 400um Core,0.39NA.1m
R-FC-P-N3-200-L1	Optic Fiber(m), FC/PC Adapter with 2.5 mm Ceramic Ferrule, 200um Core,0.39NA.1m
R-FC-P-N3-300-L1	Optic Fiber(m), FC/PC Adapter with 2.5 mm Ceramic Ferrule, 300um Core,0.39NA.1m
R-FC-P-N3-400-L1	Optic Fiber(m), FC/PC Adapter with 2.5 mm Ceramic Ferrule, 400um Core,0.39NA.1m
R-FC-L-N5-200-L1	Optic Fiber(m), FC/PC Adapter with 1.25 mm Ceramic Ferrule, 200um Core,0.50NA.1m
R-FC-L-N5-400-L1	Optic Fiber(m), FC/PC Adapter with 1.25 mm Ceramic Ferrule, 400um Core,0.50NA.1m
R-FC-P-N5-200-L1	Optic Fiber(m), FC/PC Adapter with 2.5 mm Ceramic Ferrule, 200um Core,0.50NA.1m
R-FC-P-N5-400-L1	Optic Fiber(m), FC/PC Adapter with 2.5 mm Ceramic Ferrule, 400um Core,0.50NA.1m
YX0S-1*2-473-200/220-2.0-Φ1.25(FC) (150/50cm)	Fusion fiber-200um, NA0.22, FC/PC Adapter with 1.25 mm Ceramic Ferrule, bundle end-1.5m, beam splitting end-0.5m.1m
YX0S-1*2-473-200/220-3.0-Φ1.25(FC) (200/100cm)	Fusion fiber-200um, NA0.22, FC/PC Adapter with 1.25 mm Ceramic Ferrule, bundle end-2m, beam splitting end-1m
YX0S-1*2-473-200/220-2.0-Φ2.5(FC)(150/50cm)	Fusion fiber-200um, NA0.22, FC/PC Adapter with 2.5 mm Ceramic Ferrule, bundle end -1.5m, beam splitting end-0.5m.1m
YX0S-1*2-473-200/220-3.0-Φ2.5(FC)(200/100cm)	Fusion fiber-200um, NA0.22, FC/PC Adapter with 2.5 mm Ceramic Ferrule, bundle end-2m, beam splitting end-1m.1m
YX0S-1*2-473-2.0-Φ1.25(FC) (150/50cm)	Fusion fiber-200um, NA0.37, FC/PC Adapter with 1.25 mm Ceramic Ferrule, bundle end-1.5m, beam splitting end-0.5m.1m
YX0S-1*2-473-3.0-Φ1.25(FC) (200/100cm)	Fusion fiber-200um, NA0.37, FC/PC Adapter with 1.25 mm Ceramic Ferrule, bundle end-2m, beam splitting end-1m.1m
YX0S-1*2-473-2.0-Φ2.5(FC) (150/50cm)	Fusion fiber-200um, NA0.37, FC/PC Adapter with 2.5 mm Ceramic Ferrule, bundle end-1.5m, beam splitting end-0.5m.1m
YX0S-1*2-473-3.0-Φ2.5(FC) (200/100cm)	Fusion fiber-200um, NA0.37, FC/PC Adapter with 2.5 mm Ceramic Ferrule, bundle end-2m, beam splitting end-1m.1m

## RE20 Animal Endotracheal Intubation Kit

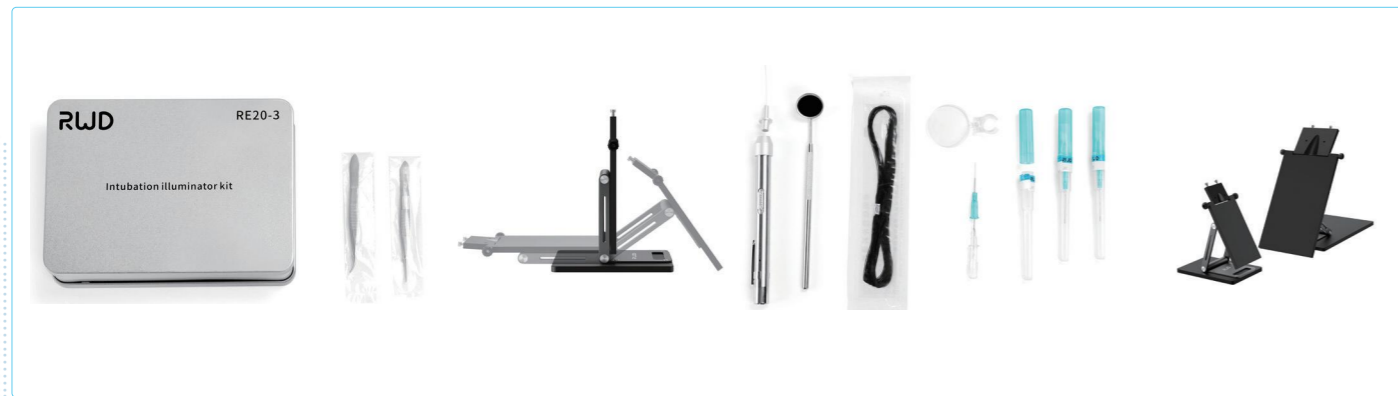
RE20 ANIMAL ENDOTRACHEAL INTUBATION KIT

### Features:

- PU material, moderate soft and hard, comfortable and not harmful to animals;
- The cordless portable optic fiber lighting system, which has been patented for an invention, improves the visibility of the airway and facilitates users to quickly and accurately finish endotracheal intubation;
- The stand angle can be adjusted, including: 45, 60, 90, to meet the requirements of users with different operation habits;
- An endotracheal magnifier with auxiliary positioning function and a tracheoscope mirror that helps to confirm intubation results are more user-friendly.

### Order Information:

Model	Product Description
RE20-R	Endotracheal intubation tube for rat (length 50mm)
RE20-M	Endotracheal intubation tube for mouse (length 25mm)



Cat.No: S11002-08

- Triangular/Curved/8cm
- Sharp&Sharp
- Cutting Edge(Length):8mm
- Width:1.5mm



Cat.No: S11003-08

- Triangular/Angled/8.5cm
- Sharp&Sharp
- Cutting Edge(Length):6.3mm
- Width:1.35mm

### VANNAS Spring Scissors

Cat.No: S11001-08

- Triangular/Straight/8cm
- Sharp&Sharp
- Cutting Edge(Length):8mm
- Width:1.55mm



Cat.No: S11036-08

- Flat/Straight/8cm
- Sharp&Sharp
- Cutting Edge(Length):8.2mm
- Width:1.5mm



Cat.No: S11037-08

- Flat/Curved/8cm
- Sharp&Sharp
- Cutting Edge(Length):8mm
- Width:1.5mm

### VANNAS Spring Scissors

Cat.No: S11035-08

- Triangular/Straight/8cm
- Sharp&Sharp
- Cutting Edge(Length):3.5mm
- Width:1.3mm



**Spring Scissors**

Cat.No: S11007-12

- Straight/12.5cm
- Sharp&Sharp
- Cutting Edge(Length):19mm
- Width:4.25mm

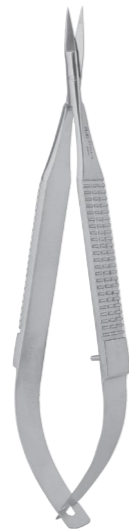


Cat.No: S11019-14

- Straight/14cm
- Sharp&Sharp
- Cutting Edge(Length):14.5mm
- Width:3.2mm

Cat.No: S11022-14

- Curved/14cm
- Sharp&Sharp
- Cutting Edge(Length):14.5mm
- Width:3.2mm



**VANNAS Spring Scissors**

Cat.No: S11014-12

- Straight/12.5cm
- Sharp&Sharp
- Cutting Edge(Length):5.5mm
- Width:1.9mm



**NOYES Spring Scissors**

Cat.No: S11008-12

- Curved/12cm
- Sharp&Sharp
- Cutting Edge(Length):14mm
- Width:0.2mm



**IRIS-Fine Scissors**

Cat.No: S12003-09

- Straight/9cm
- Sharp&Sharp
- Cutting Edge(Length):24.5mm
- Width:5mm



Cat.No: S12004-09

- Curved/9.5cm
- Sharp&Sharp
- Cutting Edge(Length):24mm
- Width:4.6mm



Cat.No: S12010-11

- Curved/11.5cm Sharp&Sharp
- Cutting Edge(Length):23.5mm
- Width:6mm



Cat.No: S12031-11

- Curved/11.5cm Sharp&Sharp
- Cutting Edge(Length):29mm
- Width:6mm



Cat.No: S12005-10

- Straight/10.5cm Sharp&Sharp
- Cutting Edge(Length):23mm
- Width:5mm



Cat.No: S12006-10

- Curved/10.5cm Sharp&Sharp
- Cutting Edge(Length):22mm
- Width:4.5mm



**IRIS-Standard Scissors**

Cat.No: S12011-12

- Straight/12.5cm Sharp&Sharp
- Cutting Edge(Length):31mm
- Width:5.8mm



**QUINBY Fine Scissors**

Cat.No: S12009-11

- Straight/11.5cm Sharp&Sharp
- Cutting Edge(Length):25mm
- Width:5.6mm



**Dissecting Scissors**

Cat.No: S13001-10

- Straight/11.5cm
- Sharp&Sharp
- Cutting Edge(Length):25.5mm
- Width:6mm



Cat.No: S13020-11

- Straight/12cm Sharp&Sharp
- Cutting Edge(Length):20mm
- Width:5mm



Cat.No: S13002-10

- Curved/10cm Sharp&Sharp
- Cutting Edge(Length):26mm
- Width:5.5mm



Cat.No: S13005-14

- Straight/14.5cm Blunt&Blunt
- Cutting Edge(Length):40mm
- Width:6.3mm



Cat.No: S13050-16

- Curved/16cm
- Blunt&Blunt



**Operating Scissors**

Cat.No: S14001-10

- Straight/10.5cm
- Sharp&Blunt
- Cutting Edge(Length):33mm
- Width:7.5mm



Cat.No: S14001-13

- Straight/13cm Sharp&Blunt
- Cutting Edge(Length):40.5mm
- Width:9.4mm



Cat.No: S14001-15

- Straight/15.5cm Sharp&Blunt
- Cutting Edge(Length):50mm
- Width:10mm



Cat.No: S14016-11

- Curved/11.5cm Sharp&Blunt
- Cutting Edge(Length):35.4mm
- Width:7.5mm



Cat.No: S13030-14

- Curved/14cm
- Blunt&Blunt
- Cutting Edge(Length):41mm
- Width:9.5mm



**Operating Scissors**

Cat.No:S14014-10

- Straight/10.5cm
- Sharp&Sharp
- Cutting Edge(Length):32.7mm
- Width:8.45mm



Cat.No:S14014-12

- Straight/12.5cm Sharp&Sharp
- Cutting Edge(Length):37.6mm
- Width:8.6mm



Cat.No:S14014-13

- Straight/13cm Sharp&Sharp
- Cutting Edge(Length):45mm
- Width:9.8mm



Cat.No:S14014-15

- Straight/15.5cm
- Sharp&Sharp
- Cutting Edge(Length):48mm
- Width:10mm



Cat.No:S13004-11

- Curved/11.5cm Blunt&Blunt
- Cutting Edge(Length):28mm
- Width:5mm



Cat.No:S13006-14

- Curved/14.5cm Blunt&Blunt
- Cutting Edge(Length):44mm
- Width:7.5mm



Cat.No:S13029-14

- Straight/14cm Blunt&Blunt
- Cutting Edge(Length):37mm
- Width:9mm



Cat.No:S13038-14

- Straight/14.5cm
- Blunt&Blunt
- Cutting Edge(Length):41mm
- Width:10mm



**Operating Scissors**

Cat.No:S13050-15

- Curved/15cm
- Blunt&Blunt



**Stitch Scissors**

Cat.No:S15006-09

- Curved/9.5cm Sharp&Sharp
- Cutting Edge(Length):13.5mm
- Width:4mm



**SPENCER Ligature Scissors**

Cat.No:S15001-11

- Slender Type/11cm
- Cutting Edge(Length):27mm
- Width:6mm



Cat.No:S15001-09

- Slender Type/9cm
- Cutting Edge(Length):20.3mm
- Width:4mm



**BEEBE Bone Cutters**

Cat.No:S16001-10

- Straight/10.5cm
- Cutting Edge(Length):21mm
- Width:10mm



**Bone Cutters with Flat Blades**

Cat.No: S22005-12

- Flat Blades/12.5cm
- Cutting Edge(Length):15.2mm
- Width:7.4mm



**Rongeurs**

Cat.No: S21022-14

- Curved/14cm
- Cutting Edge(Length):0.5mm



Cat.No: S22004-11

- Flat Blades/11cm
- Cutting Edge(Length):15mm
- Width:6.8mm



Cat.No: S21002-15

- Curved/15cm
- Cutting Edge(Length):12.5mm
- Width:3.5mm



Cat.No: S21010-15

- Curved/15cm
- Cutting Edge(Length):19mm
- Width:2mm



Cat.No: S21023-14

- Curved/14cm
- Cutting Edge(Length):0.7mm
- Width:7mm



Cat.No: S21024-14

- Curved/14cm
- Cutting Edge(Length):1mm
- Width:6.5mm



**Rongeurs**

Cat.No: S21019-14

- Straight/14.5cm
- Cutting Edge(Length):0.5mm
- Width:7.5mm



**Scalpel**

Cat.No: S33006-13

- Straight/13cm
- Cutting Edge(Length):25mm
- Width:3mm



**Scalpel Handles(3#)**

Cat.No: S32003-12

- 12.5cm



**Scalpel Handles(4#)**

Cat.No: S32004-13

- 14cm



**Scalpel Blades(4#)**

Cat.No: S31010-01

- Box of 100 pcs



**Scalpel Blades(11#)**

Cat.No: S31011-01

- Box of 100 pcs



**Scalpel Blades(12#)**

Cat.No: S31012-01

- Box of 100 pcs



**Scalpel Blades(15#)**

Cat.No: S31015-01

- Box of 100 pcs

**Micro Forceps**

Cat.No:F11029-11

- Straight/11cm
- Tips:0.14X0.09mm

**Micro Forceps**

Cat.No:F11030-11

- 45° Angled/11cm
- Tips:0.1X0.06mm

**Micro Forceps**

Cat.No:F11031-11

- Curved/11cm
- Tips:0.07X0.03mm

**Micro Forceps**

Cat.No:F11001-11

- Straight/11cm
- Tips:0.2X0.12mm



Cat.No:F11002-11

- Straight/11cm
- Tips:0.15X0.1mm



Cat.No:F11020-11

- Straight/11cm
- Tips:0.05X0.01mm

**Micro Forceps**

Cat.No:F11003-11

- 45° Angled/11cm
- Tips:0.3X0.15mm



Cat.No:F11003-13

- 45° Angled/13cm
- Tips:0.15X0.1mm



Cat.No:F11021-11

- 45° Angled/11cm
- Tips:0.1X0.06mm

**Micro Forceps**

Cat.No:F11022-11

- Curved/11.5cm
- Tips:0.1X0.06mm



Cat.No:F13004-11

- Curved/11.5cm
- Tips:0.3X0.15mm



Cat.No:F11004-11

- Curved/11cm
- Tips:0.2X0.12mm

**Micro Forceps**

Cat.No:F11027-13

- Straight/13cm
- Tips:0.1X0.06mm



Cat.No:F11028-13

- Curved/13cm
- Tips:0.1X0.06mm



**ADSON Dressing Forceps**

Cat.No:F12002-12

- Straight/12cm
- Tips width:0.6mm



Cat.No:F12003-12

- Straight/12cm
- Tips width:1.5mm



Cat.No:F13029-10

- Straight/10.5cm
- 1X2 teeth
- Tips width:1.3mm



Cat.No:F13030-10

- Curved/10.5cm
- 1X2 teeth
- Tips width:1.3mm



Cat.No:F12012-10

- Straight/10cm
- Tips:0.4X0.2mm



Cat.No:F12011-13

- Curved/13cm
- Width:1.2mm



Cat.No:F12019-10

- Straight/10.5cm
- Tips width:2mm



Cat.No:F18017-09

- Ring/9cm
- ID:2.2mm
- OD:3.2mm



Cat.No:F12005-10

- Straight/10cm
- Tips width:1mm



Cat.No:F12006-10

- Curved/10cm
- Tips width:1mm



Cat.No:F12007-10

- Curved/10cm
- Tips width:0.9mm



Cat.No:F14012-10

- Curved/10cm
- Tips width:0.5mm



Cat.No:F12013-10

- 45° Curved/10cm
- Tips :0.5x0.2mm



**MCPHERSON Forceps**

Cat.No:F18011-09

- Straight/9cm
- Tips :0.4X0.9mm
- 5mm Platform



**Dissecting Forceps (Slender)**

Cat.No:F12019-10

- Straight/10cm
- Width:2mm



Cat.No:F12010-13

- Straight/13cm
- Width:1.3mm



Cat.No:F12029-09

- Straight/9.5cm
- Width:0.8mm



Cat.No:F12011-10

- Curved/10.5cm
- Width:1.9mm



**Dressing Forceps**

Cat.No:F15007-15

- Curved/15cm
- Width:1.2mm



**1X2 Teeth Tissue Forceps (Standard)**

Cat.No:F13023-14

- Straight/14cm
- Width:1.8mm



Cat.No:F12010-10

- Straight/10.5cm
- Width:1.8mm



### SEMKEN 1X2 Teeth Tissue Forceps

Cat.No: F13014-12

- Straight/13.cm
- Width:1mm



Cat.No: F21002-12

- Curved/12.5cm
- Width:1mm

### Artery Forceps

Cat.No: F21001-12

- Straight/12.5cm
- Width:1mm



Cat.No: F18001-10

- Curved/10.5cm
- Width:5.4mm

### Cover Glass Forceps

Cat.No: F18015-10

- Straight/10.5cm
- Width:4mm



### Artery Forceps

Cat.No: F21019-16

- Straight/16cm
- Width:1mm



Cat.No: F22003-10

- Curved/10cm
- Width:1mm



Cat.No: F21020-16

- Curved/16cm
- Width:1.5mm



Cat.No: F21011-14

- Straight/14.5cm
- Width:2mm



Cat.No: F22002-10

- Straight/10.5cm
- Width:0.8mm



### Needle Holders

Cat.No: F31047-12

- Straight/12cm
- Cutting Edge(Length):8.5mm
- Width:1.5mm



Cat.No: F31047-14

- Straight/14cm
- Cutting Edge(Length):17.3mm
- Width:1.7mm



### MURRAY Needle Holders

Cat.No: F31031-15

- Straight/15.5 cm
- Width:2.5mm



Cat.No: F31026-12

- Straight/12 cm
- Width:3mm



Cat.No: F31034-14

- Straight/14cm
- Cutting Edge(Length):17.5mm
- Width:1.75mm



**Needle Holders**

Cat.No: F31025-13

- Straight/13cm
- Cutting Edge (Length): 17.5mm
- Width: 1.75mm



**Ear Punch**

Cat.No: C22001-10

- Straight/10.5cm
- Punch Dia: 1mm



Cat.No: C22002-10

- Straight/10.5cm
- Punch Dia: 2mm



**Micro Clamps**

Cat.No: R34001-14

- Straight/14cm
- Cutting Edge (Length): 8.4mm
- Wdth: 5mm



Cat.No: R31005-06

- Straight/19mm
- Cutting Edge (Length): 6mm
- Wdth: 1mm



Cat.No: R33001-48

- Straight/48cm
- Cutting Edge (Length): 14mm
- Width: 4mm



Cat.No: R31010-26

- 45° Angled/26.5mm
- Cutting Edge (Length): 15mm
- Wdth: 2.5mm



Cat.No: R31005-08

- Straight/18mm
- Cutting Edge (Length): 8mm
- Wdth: 2mm



Cat.No: R31005-10

- Straight/20mm
- Cutting Edge (Length): 10mm
- Wdth: 2mm



Cat.No: R31006-04

- Curved/17mm
- Cutting Edge (Length): 6.3mm
- Wdth: 1mm



Cat.No: R33003-01

- Straight/58mm
- Cutting Edge (Length): 17mm
- Wdth: 3.7mm



Cat.No: R33003-02

- Curved/58mm
- Cutting Edge (Length): 18.5mm
- Wdth: 4mm



Cat.No: R31006-06

- Curved/17mm
- Cutting Edge (Length): 6.6mm
- Wdth: 1mm



**Hooks**

Cat.No:R21027-12

- 1 Angled Tooth/12.5cm
- 5mm depth



**Spatula**

Cat.No:R51003-11

- Curved/11cm
- Tips :2X0.3mm



**Retractors**

Cat.No:R22029-03

- 11mm Spread/3cm



**Retractors**

Cat.No:R22005-45

- 36mm Spread/5cm



**Retractors**

Cat.No:R22011-50

- 30mm Spread/5.5cm



**Retractors**

Cat.No:R22009-01

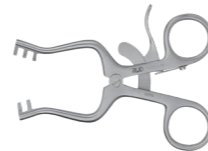
- 65mm Spread/7.5cm



**Retractors**

Cat.No:R22029-04

- 20mm Spread/4cm



**Retractors**

Cat.No:R22013-10

- 10mm Spread



**Tying Forceps**

Cat.No:FC11001R-11

- Straight(SS)/11cm
- Tips:0.3X0.5mm



**Tying Forceps**

Cat.No:FC11002R-08

- Straight(SS)/8.5cm
- Tips:0.3X0.5mm



**Tying Forceps**

Cat.No:FC11001T-11

- Straight(TA)/11cm
- Tips:0.3X0.5mm



**Tying Forceps**

Cat.No:FC11002T-08

- Straight(TA)/8.5cm
- Tips:0.3X0.5mm



**Corneal Forceps**

Cat.No:FC12001T-11

- Straight(TA)/10.7cm
- Tips width: 0.3mm



**Corneal Forceps**

Cat.No:FC12002R-08

- Curved(SS)/8.5cm
- Tips width: 0.3mm



**Corneal Forceps**

Cat.No:FC12001R-11

- Straight(SS)/10.7cm
- Tips width: 0.3mm



**Corneal Forceps**

Cat.No:FC12002T-08

- Curved(TA)/8.5cm
- Tips width: 0.3mm



**Tissue Forceps**

Cat.No:FC13002R-08

- Straight(SS)/8.5cm
- Tips: 0.3X0.5mm



**Tissue Forceps**

Cat.No:FC13001T-11

- Straight(TA)/10.7cm
- Tips: 0.3X0.5mm



**Tissue Forceps**

Cat.No:FC13001R-11

- Straight(SS)/10.7cm
- Tips: 0.3X0.5mm



**Tissue Forceps**

Cat.No:FC13002T-08

- Straight(TA)/8.5cm
- Tips: 0.3X0.5mm



**Capsulorhexis Forceps**

Cat.No:FC14001R-11

- Curved(SS)/11cm
- Tips: 0.6X0.6mm



**Capsulorhexis Forceps**

Cat.No:FC14001T-11

- Curved(TA)/11cm
- Tips: 0.6X0.6mm



**Cataract Scissors**

Cat.No:SC12001R-13

- Straight(SS)/13cm
- Tips: 19X1mm



**Cataract Scissors**

Cat.No:SC12002R-13

- Curved(SS)/13cm
- Tips: 19X1mm



**Corneal/Conjunctival Scissors**

Cat.No:SC11002R-11

- Curved(SS)/11cm
- Sharp&Sharp
- Cutting Edge(Length):11mm
- Width:3mm



Cat.No:SC11001R-12

- Curved(SS)/12cm
- Sharp&Sharp
- Cutting Edge(Length):15mm
- Width:3mm



Cat.No:SC11001T-12

- Curved(TA)/12cm
- Sharp&Sharp
- Cutting Edge(Length):15mm
- Width:3mm



Cat.No:SC11002T-11

- Curved(TA)/11cm
- Sharp&Sharp
- Cutting Edge(Length):11mm
- Width:3mm



**Ear Tag applicator**

Cat.No:C23001-14

- Straight/14.5cm
- Punch Dia:2.55mm
- Width:3mm



**Ear Tag**

Cat.No:23001-5

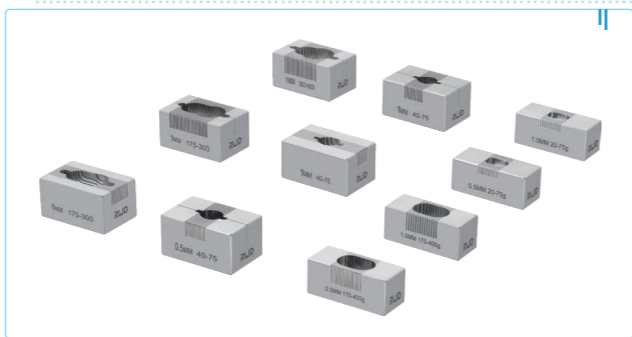
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## Brain & Heart Matrices

### STERILIZER

RWD Brain and Heart matrices is made of stainless steel, electroless plating, through precision machining and highly polished, strong durability, which can be heated, chilled, autoclaved scrubbed and use in variety of harsh conditions. The surface will not be damaged by thermal pressure, and will not be damaged by mechanical impact, keeping the product in use for a long time.

Brain matrices have coronal sections and sagittal sections, each section can be as 0.5 mm or 1 mm. Widely use in preparing pathological tissue section and cut out TTC dyeing organization.



Model	Products Description	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Depth (mm)	Diagram
68707	Brain Matrix, Mouse 40-75g, Coronal, 1mm, Stainless steel	3.18	11.1	8.73	19.1	12.5	7.40	
68708	Brain Matrix, Mouse 40-75g, Sagittal, 1mm, Stainless steel	3.18	11.1	8.73	19.1	12.5	7.40	
68709	Brain Matrix, Rat, 175-300g, Coronal, 1mm, Stainless steel	4.76	17.9	14.7	36.6	27.35	8.94	
68710	Brain Matrix, Rat, 175-300g, Sagittal, 1mm, Stainless steel	4.76	17.9	14.7	36.6	27.35	8.94	
68711	Brain Matrix, Rat, 300-600g, Coronal, 1mm, Stainless steel	4.76	19.8	14.7	36.6	25.7	10.91	
68713	Brain Matrix, Mouse, 40-75g, Coronal, 0.5mm, Stainless steel	3.18	11.1	8.73	19.1	12.5	7.40	
68719	Heart Matrix, Mouse 20-75g, Coronal, 1mm, Stainless steel	8.3	12.7				4.8	
68720	Heart Matrix, Rat 175-400g, Coronal, 1mm, Stainless steel	12.7	19.9				9.6	
68721	Heart Matrix, Mouse 20-75g, Coronal, 0.5mm, Stainless steel	8.3	12.7				4.8	
68722	Heart Matrix, Rat 175-400g, Coronal, 0.5mm, Stainless steel	12.7	19.9				9.6	

## Glass Bead Sterilizer

### STERILIZER

The sterilizer provides a safe, convenient and affective method for sterilizing your surgical instruments before and during surgery, ensuring the tools free of pathogens and microbial contaminants. The highest temperature can reach 300 C. The surgical instrument could be sterilized completed within 5 seconds.

### Ordering Information:

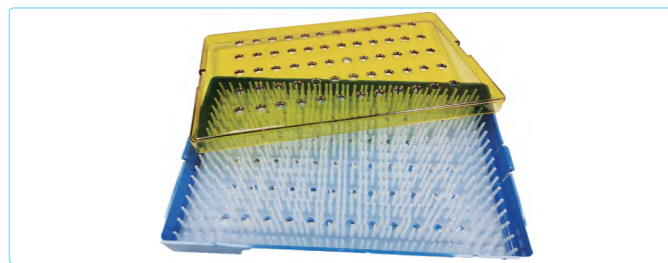
Model	Products Description
RS1501	150g Glass Bead Sterilizer-4x8cm(110V)
RS1502	150g Glass Bead Sterilizer-4x8cm(220V)
R53001	300g Glass Bead Sterilizer 4x14cm(110V)
RS3002	300g Glass Bead Sterilizer 4x14cm (220V)
RS1500	Glass Beads for Sterilizer 1500g



## Sterilization Trays

### DISINFECTION BOX


Model	Products Description
C12006-01	270*160*22mm
C12006-02	215*135*22mm




## Surgery Instrument Kit

A LEADING MANUFACTURER FOR PRE-CLINICAL RESEARCH

<b>SP0001-G</b> <b>General Surgery Instrument Kit for Rodents</b> 					
Cat.No.	Product Description		Cat.No.	Product Description	Qty
S11001-08	VANNAS Spring Scissors(Triangular-S/S Str/8*1.5mm/8cm	1	S21010-15	BOHLER Rongeurs (Double)-Light Cvd/2*19mm/15cm	1
S11002-08	VANNAS Spring Scissors (Triangular)-S/S Cvd/8*1.5mm/8cm	1	S22004-11	Bone Cutters with Flat Blades (SGL)-15*6.8mm/11cm	1
S12009-11	IRIS-Fine Scissors (Round Type)-S/S Str/25*5.6mm/11.5cm	1	S14014-12	Operating Scissors (Round Type)-S/S Str/37.6*8.5mm/12.5cm	1
S12010-11	IRIS-Fine Scissors (Round Type)-S/S Cvd/23.5*6mm/11.5cm	1	S31011-01	11# Scalpel Blades (Box of 100pcs)	1
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1	S32003-12	Scalpel Handles with Ruler 3# Solid-12.5cm	1
S12004-09	IRIS-Fine Scissors (Round Type)-S/S Cvd/24*4.6mm/9.5cm	1	S33009-06	Scalpel Blade Remover-6.5cm	1
F11001-11	Micro Forceps-str,headlength 30mm,Tip 0.2*0.12mm,1cm	1	F13019-12	ADSON 1x2 Teeth Tissue Forceps, Tip width 1.8mm, 12cm	1
F11004-11	Micro Forceps-Cvd, head length 26.8mm, Tip 0.2*0.12mm, 11cm	1	R21027-12	STEVENS Hooks, 1Angled Tooth ,5mm depth,12.5cm	1
F12010-10	Dressing Forceps-Str, Tip width 1.8mm, teeth length 15mm, 10.5cm	1	R22009-01	ALM 4x4 Teeth Retractors-Blunt, 65mm Spread, 7.5cm	1
F12011-10	Dressing Forceps-Cvd, Tip width 1.9mm, teeth length 15mm, 10.5cm	1	R22005-45	3x3 Teeth Retractors-Blunt,30mm Spread,5cm	1
F21001-12	HALSTED Artery Forceps-Str/23.5*1mm/12.5cm	2	R51003-11	Dual-end Micro Spatula w/tip W. 2mm x Thk.0.3mm - Cvd/11cm	1
F21002-12	HALSTED Artery Forceps-Cvd/24*1mm/12.5cm	2	F35204-70	NANylon Sutures w/Needle-A3/8/25X5/30cm/7-0(50/Box)	0.2
F22002-10	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	2	F35401-50	NA Terylene Sutures w/Needle-O3/8/3X10/90cm/5-0 (50/Box)	0.2
F22003-10	HARTMAN Mosquito Forceps-Cvd/20.81mm/10cm	2	R31006-06	SSMicro Clamps-Cvd/LW 6.6*1mm/17mm	5
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1	R31005-06	SS Micro Clamps-Str/LW 6*1mm/19mm	5
S13029-14	MAYO-STILLE Dissecting & Operating Scissors-B/B Str/37*9mm/14cm	1	R34001-14	Clip Applicator for R31005- and R31006-Clamps-8.4*5mm/14cm	1
S15001-11	SPENCER Ligature Scissors(Slender Type-27*6mm/11cm	1	SP0001-P	Instrument Storage Portfolio	1

<b>SP0003-R</b> <b>Microsurgery Instrument Kit for Rat, Cat, Rabbit etc.</b> 					
Cat.No.	Product Description		Cat.No.	Product Description	Qty
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1	S12010-11	IRIS-Fine Scissors (Round Type)-S/S Cvd/23.5*6mm/11.5cm	1
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1	F11001-11	Micro Forceps-Str, head length 30mm, Tip 0.2*0.12mm, 11cm	1
R31005-06	SS Micro Clamps-Str/L*W 6*1mm/19mm	5	R34001-14	Clip Applicator for R31005- and R31006-Clamps-8.4*5mm/14cm	1
S11001-08	VANNAS Spring Scissors(Triangular)-S/S Str/8*1.5mm/8cm	1	S11002-08	VANNAS Spring Scissors (Triangular)-S/S Cvd/8*15mm/8cm	1
F22006-12	HALSTED Artery Forceps-Str/23.5*1mm/12.5cm	1	F22007-12	HALSTED Artery Forceps-Cvd/24*1mm/12.5cm	1
F35401-50	NA Terylene Sutures w/Needle-O3/8/3X10/90cm/5-0(50/Box)	0.2	S32003-12	11# Scalpel Blades (Box of 100pcs)	1
S31011-01	Scalpel Handles with Ruler 3# Solid-12.5cm	1	SP0000-P	Instrument Storage Portfolio	1

<b>SP0003-M</b> <b>Microsurgery Instrument Kit for Mice</b> 					
Cat.No.	Product Description		Cat.No.	Product Description	Qty
S12004-09	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1	S12005-10	IRIS-Fine Scissors (Round Type)-S/S Cvd/24*4.6mm/9.5cm	1
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1	F11001-11	Micro Forceps-Str, head length 30mm, Tip 0.2*0.12mm, 11cm	1
R31005-04	SS Micro Clamps-Str/LW 4*0.75mm/16mm	5	R34001-14	Clip Applicator for R31005- and R31006-Clamps-8.4*5mm/14cm	1
S11001-08	VANNAS Spring Scissors (Triangular)-S/S Str/8*1.5mm/8cm	1	S11002-08	VANNAS Spring Scissors (Triangular)-S/S Cvd/8*1.5mm/8cm	1
F22002-10	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	1	F22003-10	HARTMAN Mosquito Forceps-Cvd/20.8*1mm/10cm	1
F35401-50	NA Terylene Sutures w/Needle-O3/8/3X10/90cm/5-0(50/Box)	0.2	S32003-12	11# Scalpel Blades (Box of 100pcs)	1
S31011-01	Scalpel Handles with Ruler 3# Solid-12.5cm	1	SP0000-P	Instrument Storage Portfolio	1

**SP0005-R**  
**Brain Microinjection Surgery Instrument Kit for Rat**


Cat.No.	Product Description	Qty
S31011-01	Scalpel Handles with Ruler 3# Solid-12.5cm	1
S32003-12	11# Scalpel Blades (Box of 100pcs)	1
S12005-10	IRIS-Fine Scissors(Round Type)-S/S Str/23*5mm/10.5cm	1
S12006-10	IRIS-Fine Scissors (Round Type)-S/S Cvd/22*4.5mm/10.5cm	1
F12010-10	Dressing Forceps-Str, Tip width 1.8mm, teeth length 15mm, 10.5cm	2
F12011-10	Dressing Forceps-Cvd, Tip width 1.9mm, teeth length 15mm, 10.5cm	2
F22006-12	HALSTED Artery Forceps-Str/23.5*1mm/12.5cm	2
F22007-12	HALSTED Artery Forceps-Cvd/24*1mm/12.5cm	2
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1
S14014-12	Operating Scissors (Round Type)-S/S Str/37.6*8.5mm/12.5cm	1
F35205-60	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	0.2
R22009-01	ALM 4x4 Teeth Retractors-Blunt, 65mm Spread, 7.5cm	1
R51003-11	Dual-end Micro Spatula w/tip W. 2mm x Thk. 0.3mm - Cvd/11cm	1
SP0000-P	Instrument Storage Portfolio	1

**SP0005-M**  
**Brain Microinjection Surgery Instrument Kit for Mice**


Cat.No.	Product Description	Qty
S31011-01	Scalpel Handles with Ruler 3# Solid-12.5cm	1
S32003-12	11# Scalpel Blades (Box of 100pcs)	1
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1
S12004-09	IRIS-Fine Scissors (Round Type)-S/S Cvd/24*4.6mm/9.5cm	1
S14014-11	Operating Scissors (Round Type)-S/S Str/36.5*8.5mm/11.5cm	1
F12005-10	IRIS Dissecting Forceps-Str, Tip width 1mm, teeth length 14mm, 10cm	2
F12006-10	IRIS Dissecting Forceps-Light Cvd, Tip width 1mm, teeth length 13.5mm, 10cm	2
F22002-10	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	2
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1
F35204-70	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	0.2
F22003-10	HARTMAN Mosquito Forceps-Cvd/20.8*1mm/10cm	2
R51003-11	Dual-end Micro Spatula w/tip W. 2mm x Thk. 0.3mm - Cvd/11cm	1
SP0001-P	Instrument Storage Portfolio	1

**SP0007-M**  
**Univeral dissecting Surgery Instrument Kit for Mice**


Cat.No.	Product Description	Qty
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1
S12004-09	IRIS-Fine Scissors (Round Type)-S/S Cvd/24*4.6mm/9.5cm	1
S13003-11	STEVENS Fine Dissecting Scissors (Flat Type)-B/B Str/25*4mm/11.5cm	1
S13004-11	STEVENS Fine Dissecting Scissors (Flat Type)-B/B Cvd/28*5mm/11.5cm	1
S15001-09	SPENCER Ligature Scissors (Slender Type)-20.3*4mm/9cm	1
S32003-12	11# Scalpel Blades (Box of 100pcs)	1
S31015-01	15# Scalpel Blades (Box of 100pcs)	1
F12005-10	IRIS Dissecting Forceps-Str, Tip width 1mm, teeth length 14mm, 10cm	2
F12006-10	IRIS Dissecting Forceps-Light Cvd, Tip width 1mm, teeth length 13.5mm, 10cm	2
F22002-10	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	2
F22003-10	HARTMAN Mosquito Forceps-Cvd/20.8*1mm/10cm	2
F13029-10	IRIS 1x2 Teeth Tissue Forceps-Str, Tip width 1.3mm, 10.5cm	1
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1
F35305-50	NA Terylene Sutures w/Needle-○3/8/3×10/90cm/5-0 (50/Box)	0.2
R22005-45	3x3 Teeth Retractors-Blunt, 30mm Spread, 5cm	1
R31005-04	SS Micro Clamps-Str/L*W 4*0.75mm/16mm	5
R42002-12	Spinal Cord Hook - Tip Dia. 3mm/12cm	1
R34001-14	Clip Applicator for R31005- and R31006-Clamps-8.4*5mm/14cm	1
SP0000-P	Instrument Storage Portfolio	1

**SP0007-R**  
**Univeral Dissecting Surgery Instrument Kit for Rat**


Cat.No.	Product Description	Qty
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1
S12006-10	IRIS-Fine Scissors (Round Type)-S/S Cvd/22*4.5mm/10.5cm	1
S12010-11	IRIS-Fine Scissors (Round Type)-S/S Cvd/23.5*6mm/11.5cm	1
S13005-14	METZENBAUM Dissecting Scissors (Round Type)-B/B Str/40*6.3mm/14.5cm	1
S13006-14	METZENBAUM Dissecting Scissors (Round Type)-B/B Cvd/44*7.5mm/14.5cm	1
F21001-12	HALSTED Artery Forceps-Str/23.5*1mm/12.5cm	2
F21002-12	HALSTED Artery Forceps-Cvd/24*1mm/12.5cm	2
F12010-10	Dressing Forceps-Str, Tip width 1.8mm, teeth length 15mm, 10.5cm	2
F12011-10	Dressing Forceps-Cvd, Tip width 1.9mm, teeth length 15mm, 10.5cm	2
F13029-10	IRIS 1x2 Teeth Tissue Forceps-Str, Tip width 1.3mm, 10.5cm	1
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1
S15001-11	SPENCER Ligature Scissors (Slender Type)-27*6mm/11cm	1
S32003-12	11# Scalpel Blades (Box of 100pcs)	1
S31015-01	15# Scalpel Blades (Box of 100pcs)	1
F35305-50	NA Terylene Sutures w/Needle-○3/8/3×10/90cm/5-0 (50/Box)	0.2
R22009-01	ALM 4x4 Teeth Retractors-Blunt, 65mm Spread, 7.5cm	1
R31005-06	SS Micro Clamps-Str/L*W 6*1mm/19mm	5
R42002-12	Spinal Cord Hook - Tip Dia. 3mm/12cm	1
R34001-14	Clip Applicator for R31005- and R31006-Clamps-8.4*5mm/14cm	1
SP0000-P	Instrument Storage Portfolio	1

**SP0008-M**  
**Cardio-cerebral Perfusion Surgery Instrument Kit for Mice**


Cat.No.	Product Description	Qty
S14014-11	Operating Scissors (Round Type)-S/S Str/32.7*8.45mm/10.5cm	1
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1
S11001-08	VANNAS Spring Scissors (Triangular)-S/S Str/8*1.5mm/8cm	1
F12007-10	IRIS Dissecting Forceps-Large Cvd, Tip width 0.9mm, teeth length 10mm, 10cm	1
F12010-09	Dressing Forceps-Str, Tip width 1.8mm, teeth length 13.5mm, 9.5cm	2
F22002-10	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	2
F22003-10	HARTMAN Mosquito Forceps-Cvd/20.8*1mm/10cm	2
F35305-50	NA Terylene Sutures w/Needle-○3/8/3×10/90cm/5-0 (50/Box)	0.2
F35204-70	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	0.2
R21027-12	STEVENS Hooks, 1 Angled Tooth , 5mm depth, 12.5cm	1
R22005-45	3x3 Teeth Retractors-Blunt, 30mm Spread, 5cm	1
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1
R31005-04	SS Micro Clamps-Str/L*W 4*0.75mm/16mm	5
R34001-14	Clip Applicator for R31005- and R31006-Clamps-8.4*5mm/14cm	1
R42002-12	Spinal Cord Hook - Tip Dia. 3mm/12cm	1
SP0001-P	Instrument Storage Portfolio	1

**SP0008-R**  
**Cardio-cerebral Perfusion Surgery Instrument Kit for Rat**


Cat.No.	Product Description	Qty
S14014-12	Operating Scissors (Round Type)-S/S Str/37.6*8.5mm/12.5cm	1
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1
S11002-08	VANNAS Spring Scissors (Triangular)-S/S Cvd/8*1.5mm/8cm	1
F12007-10	IRIS Dissecting Forceps-Large Cvd, Tip width 0.9mm, teeth length 10mm, 10cm	1
F12005-10	IRIS Dissecting Forceps-Str, Tip width 1mm, teeth length 14mm, 10cm	2
F22006-12	HALSTED Artery Forceps-Str/23.5*1mm/12.5cm	2
F22007-12	HALSTED Artery Forceps-Cvd/24*1mm/12.5cm	2
F35305-50	NA Terylene Sutures w/Needle-○3/8/3×10/90cm/5-0 (50/Box)	0.2
F35204-70	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	0.2
R21027-12	STEVENS Hooks, 1 Angled Tooth , 5mm depth, 12.5cm	1
R22005-45	3x3 Teeth Retractors-Blunt, 30mm Spread, 5cm	1
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1
R31005-06	SS Micro Clamps-Str/L*W 6*1mm/19mm	5
R42002-12	Spinal Cord Hook - Tip Dia. 3mm/12cm	1
R34001-14	Clip Applicator for R31005- and R31006-Clamps-8.4*5mm/14cm	1
SP0001-P	Instrument Storage Portfolio	1

## SURGERY INSTRUMENT KIT

**SP0009-R**  
**General Surgery Instrument Kit for Rat**


Cat.No.	Product Description	Qty
F11020-11	Micro Forceps-Str, head length 36mm, Tip 0.05*0.01mm, 11cm	1
F11021-11	Micro Forceps-45°Angled, head length 30mm, Tip 0.1*0.06mm, 11cm	1
S32003-12	Scalpel Handles with Ruler 3# Solid-12.5cm	1
S31011-01	11# Scalpel Blades (Box of 100pcs)	1
F35401-50	NA Terylene Sutures w/Needle-○3/8/3×10/90cm/5-0 (50/Box)	0.2
F35205-60	NA Nylon Sutures w/Needle-△3/8/2.5×5/30cm/7-0 (50/Box)	0.2
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1
S11001-08	VANNAS Spring Scissors (Triangular)-S/S Str/8*1.5mm/8cm	1
S11002-08	VANNAS Spring Scissors (Triangular)-S/S Cvd/8*1.5mm/8cm	1
R22009-01	ALM 4x4 Teeth Retractors-Blunt, 65mm Spread, 7.5cm	1
F12005-10	IRIS Dissecting Forceps-Str, Tip width 1mm, teeth length 14mm, 10cm	1
F12006-10	IRIS Dissecting Forceps-Light Cvd, Tip width 1mm, teeth length 13.5mm, 10cm	1
F12007-10	IRIS Dissecting Forceps-Large Cvd, Tip width 0.9mm, teeth length 10mm, 10cm	1
F13029-10	IRIS 1x2 Teeth Tissue Forceps-Str, Tip width 1.3mm, 10.5cm	1
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Str/25*5.6mm/11.5cm	1
S12010-11	IRIS-Fine Scissors (Round Type)-S/S Cvd/23.5*6mm/11.5cm	1
F21001-12	HALSTED Artery Forceps-Str/23.5*1mm/12.5cm	1
F21002-12	HALSTED Artery Forceps-Cvd/24*1mm/12.5cm	1
SP0000-P	Instrument Storage Portfolio	1

**SP0009-M**  
**General Surgery Instrument Kit for Mouse**


Cat.No.	Product Description	Qty
F11020-11	Micro Forceps-Str, head length 36mm, Tip 0.05*0.01mm, 11cm	1
F11021-11	Micro Forceps-45°Angled, head length 30mm, Tip 0.1*0.06mm, 11cm	1
S32003-12	Scalpel Handles with Ruler 3# Solid-12.5cm	1
S31011-01	11# Scalpel Blades (Box of 100pcs)	1
F35401-50	NA Terylene Sutures w/Needle-○3/8/3×10/90cm/5-0 (50/Box)	0.2
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1
S11001-08	VANNAS Spring Scissors (Triangular)-S/S Str/8*1.5mm/8cm	1
S11002-08	VANNAS Spring Scissors (Triangular)-S/S Cvd/8*1.5mm/8cm	1
R22029-04	Colibri Eye Specula-15mm spread, 4cm	1
F12005-10	IRIS Dissecting Forceps-Str, Tip width 1mm, teeth length 14mm, 10cm	1
F12006-10	IRIS Dissecting Forceps-Light Cvd, Tip width 1mm, teeth length 13.5mm, 10cm	1
F12007-10	IRIS Dissecting Forceps-Large Cvd, Tip width 0.9mm, teeth length 10mm, 10cm	1
F13029-10	IRIS 1x2 Teeth Tissue Forceps-Str, Tip width 1.3mm, 10.5cm	1
S12004-09	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Cvd/24*4.6mm/9.5cm	1
F22002-10	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	1
F22003-10	HARTMAN Mosquito Forceps-Cvd/20.8*1mm/10cm	1
SP0000-P	Instrument Storage Portfolio	1

**SP0010-B**  
Basic Surgical Instrument Kit for Rat & Mice



Cat.No.	Product Description	Qty
S11001-08	VANNAS Spring Scissors (Triangular)-S/S Str/8*1.5mm/8cm	1
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1
F12005-10	IRIS Dissecting Forceps-Str, Tip width 1mm, teeth length 14mm, 10cm	1
F12006-10	IRIS Dissecting Forceps-Light Cvd, Tip width 1mm, teeth length 13.5mm, 10cm	1
F11020-11	Micro Forceps-Str, head length 36mm, Tip 0.05*0.01mm, 11cm	1
F22002-10	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	1
F22003-10	HARTMAN Mosquito Forceps-Cvd/20.8*1mm/10cm	1
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str,8.5*1.5mm/12cm	1
S33007-12	ZIEGLER Knives-8mm Cutting Edge/1.5mm Width/12cm	1
R31005-06	SS Micro Clamps-Str/L*W 6*1mm/19mm	1
R31006-06	SS Micro Clamps-Cvd/L*W 6.6*1mm/17mm	1
SP0000-P	Instrument Storage Portfolio	1

**SP0011-B**  
MCAO Surgical Instrument Kit for Rat & Mice



Cat.No.	Product Description	Qty
S32003-12	Scalpel Handles with Ruler 3# Solid-12.5cm	1
S31015-01	15# Scalpel Blades (Box of 100pcs)	1
S14014-14	Operating Scissors (Round Type)-S/S Str/48*10mm/15.5cm	1
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1
S12006-10	IRIS-Fine Scissors (Round Type)-S/S Cvd/22*4.5mm/10.5cm	1
F12005-10	IRIS Dissecting Forceps-Str, Tip width 1mm, teeth length 14mm, 10cm	1
F12006-10	IRIS Dissecting Forceps-Light Cvd, Tip width 1mm, teeth length 13.5mm, 10cm	1
F13029-10	IRIS 1x2 Teeth Tissue Forceps-Str, Tip width 1.3mm, 10.5cm	1
F13030-10	IRIS 1x2 Teeth Tissue Forceps-Light Cvd, Tip width 1.3mm, 10.5cm	1
R21013-02	MANNERFELT Hooks, 2 Teeth (7mm), Blunt, 15.5cm*	4
R31005-06	SS Micro Clamps-Str/L*W 6*1mm/19mm	5
F11028-13	Micro Forceps-Cvd, head length 38mm, Tip 0.1*0.06mm, 13cm	1
F11027-13	Micro Forceps-Str, head length 37.5mm, Tip 0.1*0.06mm, 13cm	1
F11003-13	Micro Forceps-45°Angled, head length 30mm, Tip 0.15*0.1mm, 13cm	1
F11002-11	Micro Forceps-Str, head length 36.5mm, Tip 0.15*0.1mm, 11cm	1
F22002-10	HARTMAN Mosquito Forceps-Str/20*0.8mm/10.5cm	1
F22003-10	HARTMAN Mosquito Forceps-Cvd/20.8*1mm/10cm	1
S11001-08	VANNAS Spring Scissors (Triangular)-S/S Str/8*1.5mm/8cm	1
F31047-14	OLSEN-HEGAR Needle Holders with Scissors-Str, 17.3*1.7mm/14cm	1
F35204-70	NA Nylon Sutures w/Needle-△3/8/2.5×5/30cm/7-0 (50/Box)	0.2
SP0001-P	Instrument Storage Portfolio	1

**SP0010-L Lite Surgical Instrument Kit**

SP0010-L LITE SURGICAL INSTRUMENT KIT



Model	Products Description	Qty
S11001-08	VANNAS Spring Scissors (Triangular)-S/S Str/8*1.55mm/8cm	1
S12005-10	IRIS-Fine Scissors (Round Type)-S/S Str/23*5mm/10.5cm	1
F12005-10	IRIS Dissecting Forceps-Str, Tip width 1mm, teeth length 14mm, 10cm	1
F12006-10	IRIS Dissecting Forceps-Light Cvd, Tip width 1mm, teeth length 13.5mm, 10cm	1
F31047-12	OLSEN-HEGAR Needle Holders with Scissors-Str, 10*2.15mm/12cm	1
C12006-02	Sterilization Trays-215*135*22mm	1



Microcentrifuge



Microcentrifuge



Rotary Microtomes



Automated Cell Counter



Single Cell Suspension  
Dissociator



D180 CO<sub>2</sub> incubator



Intelligent Optogenetics  
System



TriColor Multichannel Fiber  
Photometry System



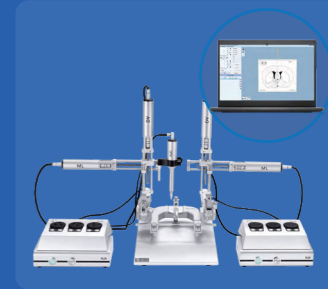
Micropipette Puller



Motorized Micromanipulator



Nanoliter Injection Pump



Automated Stereotaxic Instrument



Laser Speckle Imaging System



Cryostats



Rotary Microtomes



Anesthesia machine for small  
animals