

Contents

Nanoject III 11 Nanoject III vs. Nanoject III Capabilities 12 Nanoject III Auto-Nanoliter Injector 13 Nanoject III Auto-Nanoliter Injector 13 Nanoject III Screen III III III III III III III III III	 EZ Grip Tissue Culture Nosepiece Portable Pipet-Aid® XP2 Portable Pipet-Aid® XL Portable Pipet-Aid® XL Portable Pipet-Aid® XP Original Portable Pipet-Aid® Pipet-Aid® Hood Mate® Original Pipet-Aid® Pipet-Aid® Dual Pump Filtration Unit 	***************************************
■ Manifolds for Microtest Plates 18 ■ Repeat Kit with Valve 18 ■ Dialamatic Microdispensers 19 ■ Microdispenser Accessories and Replacement Parts 19 ■ Fixed Volume Microdispensers 20 ■ Collection Tubes 21 ■ OEM Glass and Plastic Capillary Tubing 21 ■ Calibrated Micropipets 22 ■ Captrol III® 23 ■ Wiretrol® I 23 ■ Microcaps® 24 ■ PCR Pipets 24 ■ HEMATO-CLAD® Tubes 25	Nanoject II vs. Nanoject III Capabilities 12 Nanoject II™ Auto-Nanoliter Injector 13 Nanoject II™ Accessories 14 Recording Nanoject II™ 15 Manual Oocyte Microinjection Pipet 16	
 OEM Glass and Plastic Capillary Tubing Calibrated Micropipets Captrol III® Wiretrol® I Wiretrol® II PCR Pipets HEMATO-CLAD® Tubes 	 Manifolds for Microtest Plates Repeat Kit with Valve Dialamatic Microdispensers Microdispenser Accessories and Replacement Parts 18 Dialamatic Microdispensers 19 	
	OEM Glass and Plastic Capillary Tubing 21 Calibrated Micropipets 22 Captrol III® 22 Wiretrol® I 23 Wiretrol® II 23 Microcaps® 24	
● Ordering Information	Plasticrit Plastic Hematocrit Tubes	Please Residents Please St. Security St. Sec

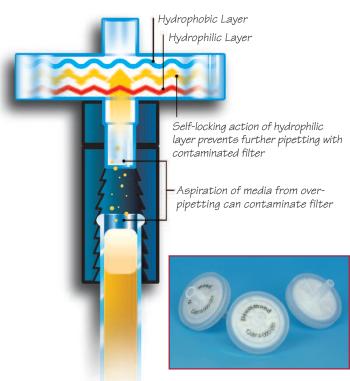
Drummond Pipet-Aids enable *User-Specific* productivity

Drummond Scientific pioneered the development of electronically controlled pipettors. The original Pipet-Aid created a new level of safety in the laboratory by eliminating the need for mouth pipetting. Over the years we have responded to the needs of our customers with superior service and new designs that offer performance and ergonomic features to make the job easier, safer, and more productive.





EZ Grip Tissue Culture Nosepiece



The Drummond EZ Grip Tissue Culture Nosepiece eliminates the possibility of cross-contamination due to over-pipetting. It incorporates a dual hydrophilic 0.8 µm, hydrophobic 0.8 µm filter which prevents further use once contaminated by fluid.

This double membrane filter provides a barrier to particles as small as 0.1 µm. Each kit contains all necessary parts including four filters. Extra filters may be ordered separately.

Cat. No.	Description
4-000-050	EZ Grip TC Nosepiece Kit with four Self-locking Filters
4-000-051	Self-locking TC Filter 5/pk
4-000-051-S	Sterile Self-locking TC Filter 5/pk
4-000-052	Self-locking TC Filter 50/pk
4-000-052-S	Sterile Self-locking TC Filter 50/pk
4-000-087	EZ Grip TC Nosepiece Kit with four Self-locking Filters for XP, XL, and Hood Mate
4-000-087-G	EZ Grip TC Nosepiece Kit with four Self-locking Filters for XL with gray nosepiece



EZ Grip Colored Nosepiece Housings for XP, XL, and Hood Mate®



Portable Pipet-Aid® XP2

The Evolution of Xcellence Continues

- New Ergonomic Design

 —The most comfortable pipettor you ever laid a hand on
- New Power Source for Uninterrupted Extended Operation— Can be charged while in use
- New Ultra Quiet Precision Pump

 —Great control for aspiration or dispensing

The new Drummond Pipet-Aid XP2 advances the industry standards for pipetting **comfort**, **convenience**, and **control**. Building on the years of experience of providing state-of-the-art tools that make your job in the laboratory safer, easier, and more convenient, the Pipet-Aid XP2 delivers more. The ergonomic design is more comfortable to handle. The new power source enables more convenient extended operation and the new more powerful pump provides great control and quieter operations. The unit is supplied complete with a power supply/charger, 4 extra filters, and a removable stand.

Specifications

Size
Weight
Capacity
Battery Ni-MH (3.6V/700 mAh)

Cat. No.	Description
4-000-501	Pipet-Aid XP2, 110V
4-000-501-A	Pipet-Aid XP2, 240V, Australia
4-000-501-I	Pipet-Aid XP2, 240V, CE, International
4-000-501-UK	Pipet-Aid XP2, 230V, CE, UK

Replacement Parts

Cat. No.		Description	
4-000-520	(1)	Nosepiece Cover	
4-000-522	(2)	Filter Lock	
4-000-523	(3)	Handle Shell	
4-000-524	(4)	Filter Connector	
4-000-051	(5)	Self-locking TC Filter 5/pk	
4-000-051-S		Sterile Self-locking TC Filter 5/pk	
4-000-052		Self-locking TC Filter 50/pk	
4-000-052-S		Sterile Self-locking TC Filter 50/pk	
4-000-002	(6)	Rubber Insert 2/pk	2)
4-000-525	(7)	Button Assembly (XP2 and XL)	T
4-000-528	(8)	XP2 and XL Valve Body Complete w/Buttons	↓
4-000-072	(9)	Switch Operator, XP/XL/XP2	<u> </u>
	(10)	Valve Body Slide (yellow) comes with Valve Body	3)
4-000-561	(11)	XP2 Pump, Board, Wire Harness, Micro Switch with Connecting Tubing	4
4-000-526	(12)	XP2 Removable Stand	5)
4-000-527	(13)	Front Cover Hold-down Clip	
4-000-036	(Not Shown)	Battery Pack (XP2 and XL only)	
4-000-065*	(14)	XP2 and XL Power Supply 100 - 240V, 50/60 Hz *Now replaces: 4-000-066 4-000-066-A 4-000-066-E	6
4-000-530	(15)	XP2 Tissue Culture Nosepiece Kit	



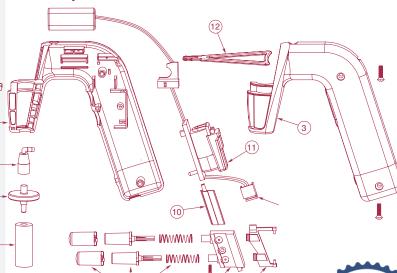








4-000-002



Portable Pipet-Aid® XL

New Ergonomic Design Reduces Fatigue When Pipetting Under a Hood

- Longer lightweight handle lowers your arm position to reduce head, neck, and upper arm strain
- New quiet, more efficient pump reduces noise and extends operation period between charges
- Can be charged while in use to eliminate downtime
- Three-speed settings provide more precise control for both aspirate and dispense modes

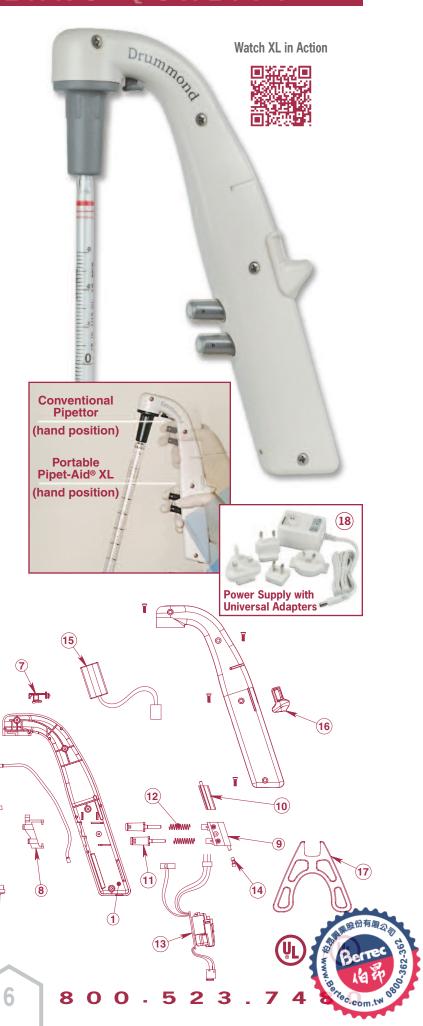
Pipetting under a hood doesn't need to be a pain in the neck. The new Drummond Portable Pipet-Aid XL has a longer handle to reduce the amount of arm lift required to perform the same operation as with a conventional pipettor. The ergonomic design includes an adjustable sliding hand rest and a removable stand which enables the unit to be set down without contaminating the pipet. The Portable Pipet-Aid XL also features a new quieter, more powerful pump, and a new EZ Grip nosepiece. The unit is supplied complete with power supply/charger, 4 extra filters, a holster-type wall bracket, and a removable stand.

Specifications

Size
Weight
Capacity Accepts 1 to 100 mL pipets
Battery Ni-MH (3.6V/700 mAh

Cat. No.	Description
4-000-105	Portable Pipet-Aid XL, 110V
4-000-205	Portable Pipet-Aid XL, 240V, CE, Euro
4-000-205-A	Portable Pipet-Aid XL, 240V, Australia
4-000-205-E	Portable Pipet-Aid XL, 230V, CE, UK

портавотне	iic i ai		
Cat. No.		Description	
4-000-067	(1)	XL Handle Shell	
4-000-079-A	(2)	EZ Grip Nosepiece (Gray)	
4-000-002	(3)	Rubber Insert (2/pk)	
4-000-051/051-9	6 (4)	Self-locking TC Filter 5/pk (051-	S - Sterile)
4-000-052/052-9	3	Self-locking TC Filter 50/pk (052	2-S - Sterile
4-000-057	(5)	TC Rubber Gaskets (Pair)	
4-000-063	(6)	Handle Connector XL	
4-000-064	(7)	Nosepiece Release XL	
4-000-072	(8)	Switch Operator XP/XL	
4-000-528	(9)	Valve Body XP2/XL (complete w buttons and springs)	ith
	(10)	Valve Body Slide (Yellow) Included with Valve Body	(6) →
4-000-525	(11)	Button Assembly (XP2 and XL) includes springs (12)	5
4-000-061	(13) (14)	XL Pump, board, wire harness, Pump/Valve body connecting tubing included with pump	4 →□
4-000-036	(15)	Battery Pack (XP2 and XL only)	_
4-000-062	(16)	XL Hand Rest	3 -
4-000-068	(17)	XL Stand	
4-000-065*	(18)	XP2 and XL Power Supply/Charg	ger 두
		100 - 240V, 50/60 Hz *Now replaces: 4-000-066 4-000-066-A 4-000-066-E	2
4-000-087-G N	ot Shown	TC Nosepiece (Gray) Kit with 4 f	
4-000-089 N	ot Shown	Pipet-Aid Holster-Type Wall Brack	ket



Portable Pipet-Aid® XP



- The lightweight, compact Portable Pipet-Aid®
- Three-speed settings provide more precise control for both aspirate and dispense modes
- Easy access battery replacement
- EZ Grip nosepiece with double membrane filter
- Removable stand
- Holster-type wall bracket included

Specifically designed to minimize operator fatigue, the Portable Pipet-Aid XP is smaller and lightweight. It accepts most pipets from 1 to 100 mL.

Each aspiration and dispense button has three speeds, (F) Fast, (M) Medium, (S) Slow. The medium speed is suitable for most routine techniques. Fast speed can deliver up to 50 mL in 5 seconds and can be used for rapid filling of large pipets or breaking up cell clumps. Slow speed is ideal when using small pipets or when more precise delivery is required. A gravity drain model is available which substitutes a gravity drain (G) function for the fast (F) mode on the dispense button.

The XP is powered by a 9 volt (Ni-MH) rechargeable battery.

A Tissue Culture Nosepiece, which features a unique filter element, will cease to allow air to pass in either direction if it becomes wet, alerting the user to possible contamination of the rubber insert.

Specifications

Size
Weight
Capacity
Battery

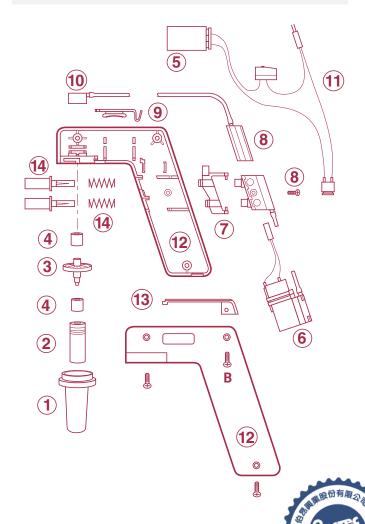
Cat. No.	Description
4-000-101	Portable Pipet-Aid XP supplied complete with 110V recharger plus four replacement filters
4-000-201	Same as above but 230V, CE, Euro
4-000-201-E	Same as above but 220V, CE, UK
4-000-102*	Portable Pipet-Aid XP with Gravity Drain, 110V
4-000-202*	Portable Pipet-Aid XP with Gravity Drain, 230V, CE, Euro
4-000-202-E*	Portable Pipet-Aid XP with Gravity Drain, 220V, CE, UK
U.S. Patent Num	bers: 5,214,968, 5,616,871, 5,294,405

*Gravity Drain Feature: The lower EMPTY button can be rotated to provide the user with three dispensing options (S = Slow; M = Medium; G = Gravity Drain). When the empty button is rotated to "G" the pump will not be activated. The fluid will drain by gravity (commonly used

with volumetric pipets).

drummondsci.com

Cat. No.		Description
4-000-002	(2)	Rubber Insert (2/pk)
4-000-030		Pipet-Aid Charger 110V, (8.7 V/8 mA)
4-000-031		Pipet-Aid Charger 230V, Euro, (8.7 V/8 mA)
4-000-033		Pipet-Aid Charger 220V, UK, (8.7 V/8 mA)
4-000-035	(5)	Ni-MH Rechargeable Battery
4-000-040	(6)	Portable Motor and Pump
4-000-051/051-S	(3)	Self-locking TC Filter 5/pk (051-S - Sterile)
4-000-052/052-S		Self-locking TC Filter 50/pk (052-S - Sterile)
4-000-057	(4)	TC Rubber Gaskets (pair)
4-000-070	(14)	Button Assembly XP includes springs (pair)
4-000-072	(7)	XP Switch Operator
4-000-073	(8)	Valve Body XP (complete with buttons, springs, and gaskets)
4-000-074	(9)	XP Nosepiece Release
4-000-075	(10)	XP Handle Connector
4-000-076	(11)	XP Wire Harness, Switch and Terminals
4-000-077	(12)	XP Handle Shell includes 2 Handle Halves and 1 Battery Door
4-000-078	(13)	XP Battery Door
4-000-079	(1)	EZ Grip Nosepiece (Black)
4-000-087		Tissue Culture Nosepiece Kit for XP, XL, and Hood Mate (includes 1, 2, 3, 4)
4-000-089		Pipet-Aid Holster-Type Wall Bracket
4-000-090		Removable Stand



Original Portable Pipet-Aid®

- Pipets over 2000 times without recharging
- Flow rate better than 25 mL at 5 seconds with 100 mL pipet
- Cordless convenience
- Tissue Culture Nosepiece provides quick disconnect and easier assembly
- Holster-type wall bracket included

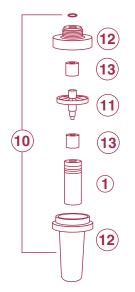
Used by millions of technicians all over the world, the Portable Pipet-Aid has earned a well-deserved reputation for reliability and durability in the laboratory. The filtered, failsafe nosepiece provides positive protection for the electronic components and prevents cross-contamination due to over-pipetting.

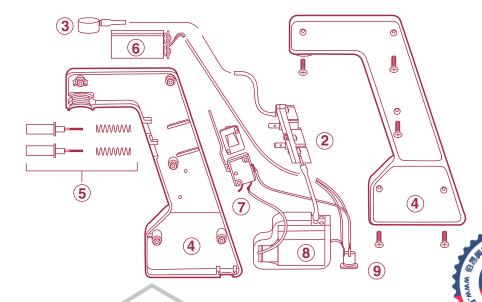
Cat. No.	Description	
4-000-100	Supplied complete with 110V recharger plus four replacement filters	
4-000-200	Same as above but 230V, CE, Euro	
U.S. Patent Numbers: 5,214,968, 4,624,147		

Cat. No.		Description
4-000-002	(1)	Rubber Insert (2/pk)
4-000-012-W	(2)	Valve Body Only
4-000-013	(3)	Handle Connector
4-000-017-P	(4)	Handle Shell, Portable
4-000-021	(5)	Button Assembly with Spring (pair)
4-000-030		Pipet-Aid Charger 110V, (8.7 V/8 mA)
4-000-031		Pipet-Aid Charger 230V, CE, Euro (8.7 V/8 mA)
4-000-033		Pipet-Aid Charger 220V, CE, UK (8.7 V/8 mA)
4-000-035	(6)	Ni-MH Rechargeable Battery
4-000-037	(7)	Portable Micro-Switch
4-000-040	(8)	Portable Motor and Pump
4-000-046	(9)	Wire Harness Switch and Terminal Port
4-000-050	(10)	EZ Grip TC Nosepiece Complete Kit (see page 3)
4-000-051/051-S	(11)	Self-locking TC Filter 5/pk (051-S - Sterile)
4-000-052/052-S		Self-locking TC Filter 50/pk (052-S - Sterile)
4-000-053-A	(12)	EZ Grip TC Nosepiece Outer Shell Only
4-000-057	(13)	TC Rubber Gaskets (pair)
4-000-089		Pipet-Aid Holster-Type Wall Bracket









Pipet-Aid® Hood Mate®

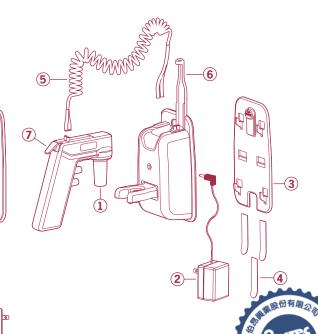
- Longer 6' coiled hose
- Extremely lightweight (4.3 oz.) handle provides nine fill and empty speed settings and proportional fingertip control
- Never needs recharging
 –handle holder incorporates "auto-off" feature
- Energy saving "auto-off" feature automatically shuts unit off after 3 minutes of nonuse
- Compact, convenient, and won't walk away. Dedicated pump housing attaches to hood wall which saves space and prevents spills
- Coiled vacuum/pressure line entering handle from the top prevents accidental knocking over of bench items

The Drummond Pipet-Aid Hood Mate is specifically designed for convenient, comfortable pipetting under a hood. The Pipet-Aid Hood Mate can deliver precise volumes with exact control. This new unit is lightweight, never requires recharging, and won't walk away from your workstation. All materials of construction are UV resistant.

Cat. No.	Description
4-000-300	Pipet-Aid Hood Mate, 110V
4-000-302	Pipet-Aid Hood Mate, 220V, CE, Euro
4-000-303	Pipet-Aid Hood Mate, 220V, CE, UK

Cat. No.		Description	
4-000-002		Rubber Insert (2/pk)	
4-000-051/051-S		Self-locking TC Filter 5/pk (051-S - Sterile)	
4-000-052/052-S		Self-locking TC Filter 50/pk (052-S - Sterile)	
4-000-057		TC Rubber Gaskets (pair)	
4-000-079	(1)	EZ Grip Nosepiece (Black)	
4-000-080	(2)	Power Supply, 110V	
4-000-081		Power Supply, 220V, CE, Euro	
4-000-081-E		Power Supply, 220V, CE, UK	
4-000-082	(3)	Backing Plate w/Tape	
4-000-083	(4)	3M Replacement Tape 3/pk	
4-000-084		Valve Body Assembly with Buttons	
4-000-085	(5)	Coiled Hose (6')	
4-000-086	(6)	Hose Support	
4-000-087		TC Nosepiece Kit with 4 filters	
4-000-088	(7)	Handle Hook	
U.S. Patent Numbers 5,214,968, 5,294,4			



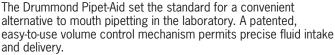






Original Pipet-Aid®

- Available with or without EZ Grip TC filter nosepiece
- Available with dual pump filtration unit for use with biohazardous materials
- Can be used with glass or plastic pipets
- Autoclavable components



A check valve protects against accidental fluid intake into the handle and optional Tissue Culture Nosepiece will prevent crosscontamination due to over-pipetting. A special filtration unit for use with biohazardous materials is also available.

Cat. No.	Description
4-000-110	Pipet-Aid, Plain, 110V
4-000-111	Pipet-Aid, with Dual Pump Filtration Unit, 110V
4-000-110-TC	Pipet-Aid complete with TC Nosepiece and four extra Filters, 110V
4-000-111-TC	Same as above but with Dual Pump Filtration Unit, 110V
4-000-220	Pipet-Aid, Plain, 220V, CE, Euro
4-000-221	Pipet-Aid, with Dual Pump Filtration Unit, 220V, CE, Euro
4-000-220-TC	Pipet-Aid complete with TC Nosepiece and four extra Filters, 220V, CE, Euro
4-000-221-TC	Same as above but with Dual Pump Filtration Unit, 220V, CE, Euro

U.S. Patent Number: 4.624.147



Pipet-Aid Replacement Parts

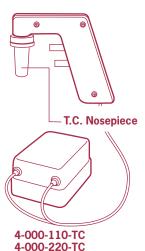
Cat. No.		Description
4-000-001	(1)	Standard Nosepiece, Complete
4-000-002	(2)	Rubber Insert (2/pk)
4-000-003	(3)	Check Valve Assembly
4-000-004	(4)	Hose (5´)
4-000-005		Filter Adapter Kit
4-000-006		Complete Handle Assembly
4-000-007		Complete Pump 110V
4-000-008		Internal Parts Kit with Hose
4-000-009	(5)	Pipet Holder Outer Shell only
4-000-010		Diaphragm Kit for Pump
4-000-011		Hose Connectors (pair)
4-000-012-W	(6)	Valve Body only
4-000-013	(7)	Handle Connector
4-000-014		Complete Pump 220V
4-000-015		Vacuum Valve Housing for Pump
4-000-016		Pressure Valve Housing for Pump
4-000-017	(8)	Handle Shell only
4-000-018	(9)	Nose Ring
4-000-019	(10)	Button Assembly with springs (pair)
4-000-050		EZ Grip TC Nosepiece Complete Kit
4.000.0E1./0E1.0		(see page 3)
4-000-051/051-S		Self-locking TC Filter 5/pk (051-S - Sterile)
4-000-052/052-S		Self-locking TC Filter 50/pk (052-S - Sterile)
4-000-053-A		EZ Grip TC Nosepiece Outer Shell only
4-000-060		Dual Pump Filters (pair)
4-000-089		Pipet-Aid Holster-Type Wall Bracket

Pipet-Aid® Dual Pump Filtration Unit

For use in a biohazardous environment, a filtration unit can be installed on the Pipet-Aid pump which will filter both vacuum and pressure lines. Incorporating dual filters, the Pipet-Aid Biohazard Filter Kit has a retention efficiency of 99.9999+% for 0.1 micron particles and droplets.

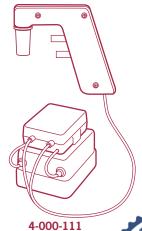
Normally factory installed, the Filter Adapter Kit can be attached to existing unfiltered Pipet-Aid pumps.

Cat. No.	Description
4-000-005	Filter Adapter Kit
4-000-060	Dual Pump Filters (pair)



4-000-220-TC

Single Pump Unit



4-000-221

Dual Pump Filtration (Replacement Filter No. 4

Nanoject III Programmable Nanoliter Injector

The Next Generation in High Precision Nanoliter Microinjection

- User-Friendly Programmable Touchscreen Operation Potential Applications Expanded
- Easy Positive Micropipet Attachments No O-Rings Required
- Proven Hydraulic Technology –
 Ensures Accurate and Consistent Injection Volumes
- Universal Power Source –
 Supplied with 4 Interchangeable Adapter Plugs

The new Drummond Programmable Nanoject III Nanoliter Injector offers a number of state-of-the-art features to provide easy setup* and operation as well as more accurate injection volumes down to 0.6 nanoliters. The Nanoject III does not require any O-rings to secure the micropipet. Operational Modes enable the user to program the unit to do single manual injections, as well as multiple injection cycle recipes. Program input and execution is enabled by prompted touchscreens located on the control box. Programmability, the lower injection volume capability plus the user's ability to select the injection rate widens the potential range of applications for the Nanoject III. The Universal Power Source provides adapter plugs to enable the unit to be used in the US, UK, Europe, and Australia simply by inserting the proper plug.

Specifications

Power Source
Total Sample Volume
Fill/Empty Speed
Injection Volume Range
Injection Rate
Plunger Travel
Glass Micropipet Dimensions $\ \dots \ \dots \ $. OD 0.045" (1.14 mm)
ID 0.021" (0.53 mm)

Ordering Information

Cat. No.	Description	
3-000-207	Nanoject III Kit 100 - 240 volts, 50/60 Hz	

Nanoject III Replacement Parts

Cat. No.	Description
3-000-030-K	Replacement Collet Kit (1 collet, 1 chuck, 1 seal, 1 wire plunger, 1 Allan wrench)
3-000-030-C	Replacement Collet only
3-000-000-207	Replacement Wire Plunger
3-000-030-S	Silicon Seal (green, 3/pk)

Nanoject III Replacement Glass Capillaries

Cat. No.	O.D (mm)	Length	I.D. (mm)	Pack
3-000-203-G/X	1.14	3.5"	0.53	100
3-000-203-G/XL	1.14	7″	0.53	100













*View micropipet backfilling portion of setup procedure

Nanoject III Kit (3-000-207) includes:

- a. Main injector unit (3-000-030-B)
- b. Control box with AC adapter (3-000-037)
- c. Outlet adapter plugs
- d. Injector head cable-connects injector unit and control box (3-000-031)
- e. Universal adapter (3-000-024-A)
- f. Backfilling needle-3D gauge, 2" (3-000-027)
- g. Glass capillary tubes (3.5" long, 100 pcs. (3-000-203-G/X)
- h. Glass capillary tubes (7" long, 100 pcs. (3-000-203-G/XL) Extra silicon seals (2) include (3-000-030-S)

Nanoject III Accessories – not shown

Cat. No.	Description
3-000-032	Foot Switch – remote capability for fill, empty and inject functions (Nanoject III only)
3-000-025-SB	Support Base
3-000-024-R	Micromanipulator, right hand
3-000-024-L	Micromanipulator, left hand

Nanoject II vs. Nanoject III Capabilities

Nanoject II	Features	Nanoject III
3-000-204, 110V	Catalog number, 110V	3-000-207
3-000-205A, Euro.	Catalog number, European plug	3-000-207
3-000-206A, UK	Catalog number, UK plug	3-000-207
2.3 nL-69 nL	Injection volumes	0.6 nL-999.9 nL
46 nL/sec.& 23 nL/sec. only	Rate of injection	1 nL/sec200 nL/sec.
No	Injection counter	Yes
No	Programmable multiple injections	Yes
No	Programmable frequency between injections	Yes
No	Program storage capability	Yes, 8 programs
No	Auto HOMING of plunger	Yes
3 O-rings, replacement necessary	Micropipette attachment	No O-rings, new chuck simplifies micropipette attachment
10 μm minimum	Micropipette I.D. size	2-3 μm minimum
Yes; inject only	Optional Footswitch	Yes; fill, empty and inject capability
No; fill, empty, inject Color, Touch Sensitive Keypad buttons only		Yes; multi screens

Both units utilize the same glass capillaries for pulling micropipettes. Due to the new improved method of securing the micropipette, smaller tips can be pulled and utilized on the Nanoject III. *No O-rings to wear out.* A micro "chuck" is used, and it simplifies attachment of the micropipette once backfilled with oil.

The auto HOMING feature will eliminate the need to "rehome" the unit as in the Nanoject II and this will reduce if not totally eliminate jamming of the plunger.

Have a question or would like additional information on the Nanoject III?

Contact Drummond Scientific at 800.523.7480 or visit

www.drummondsci.com

Nanoject II[™] Auto-Nanoliter Injector

- Automated microprocessor controlled Microinjection Pipet delivering precise nanoliter volumes accurately
- Remote control and nonrotating plunger eliminates vibration allowing precise injection minimizing possible cell rupture

Nanoject II offers these exceptional features

- Selectable Injection Volumes: from 2.3 nanoliters to 69.0 nanoliters in 16 increments
- Selectable Operating Speeds:

Fill Speed	Fast	46 nL per second
	Slow	23 nL per second
Injection Speed	Fast	46 nL per second
	Slow	23 nL per second
Empty Speed	Fast	230 nL per second
	Slow	92 nL per second

- Supplied with sufficient borosilicate glass capillaries for preparing 400 injection tips, standard softening point 780°C
- Can be mounted on most micromanipulators
 - Note: Universal Adapter 3-000-024-A supplied with unit
- Separate Foot Switch available to allow hands-free operation (see page 14)

The Drummond Nanoject II Auto-Nanoliter Injector is specifically designed to perform ultra-delicate nanoliter injection procedures into oocytes, embryos, and tissues.

Each Nanoject II Auto-Nanoliter Injector comes complete with 200 borosilicate capillaries that can be pulled to the required tolerance together with a backfilling* needle and O-ring kit.

Cat. No.	Description
3-000-204	Nanoject II Variable Volume (2.3 to 69 nL) Automatic Injector with Glass Capillaries (110V)
3-000-205A	Nanoject II, 100 - 240V, 50/60 Hz, CE, Euro
3-000-206A	Nanoject II, 100 - 240V, 50/60 Hz, CE, UK

Note: Universal Adapter supplied with all the above units

Nanoject II Replacement Parts

Cat. No.	Description
3-000-002-KN	O-Ring kit for Models 204, 205A, and 206A includes: 1 collet, 1 small O-Ring, 1 spacer, 1 compression O-Ring, and 1 Allen wrench
3-000-027 3-000-000-203-X	30 gauge, 2" Backfilling Needle Pointed Plunger Wire

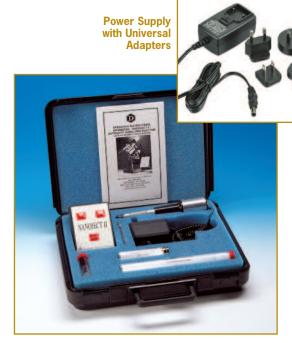
Nanoject II Replacement Glass Capillaries

Cat. No.	O.D (mm)	Length	I.D. (mm)	Pack
3-000-203-G/X	1.14	3.5″	0.53	100
3-000-203-G/XL	1.14	7″	0.53	100



*View micropipet backfilling procedure





Nanoject II Kit (3-000-204) includes:

- 1. Control box
- 2. Injector head
- 3. Power supply (3-000-033), 100 240V, 50/60 Hz Four interchangeable adapters (US, UK, Euro, Aust.)
- 4. O-ring kit (3-000-002-KN)
- 5. 3.5" glass capillaries, 100 pcs. (3-000-203-G/X)
- 6. 7" glass capillaries 100 pcs. (3-000-203-G/XL)
- 7. 30 gauge, 2" backfilling blunt needle (3-000-027)
- 8. Instruction booklet
- 9. Case



Nanoject II[™] & Nanoject III Accessories

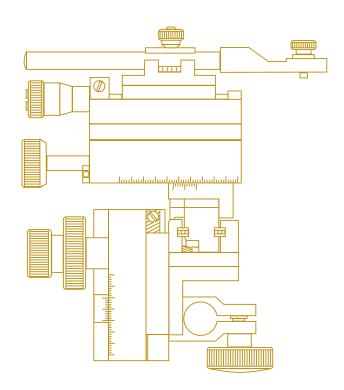
Nanoject II Accessories

Cat. No.	Description
3-000-024-A	Universal Adapter*
*Can be used on stere	otaxic equipment using 7.9 mm clamps
3-000-024-L	MM33 Micromanipulator (Left) with 1/2" clamp
3-000-024-R	MM33 Micromanipulator (Right) with 1/2" clamp
3-000-025-SB	Support Base
3-000-026	Foot Switch – Nanoject II only (not shown)
3-000-032	Foot Switch – Nanoject III only (not shown)





equipment - supplied with all nanojects



3-000-024-L

Micromanipulator-Left Hand

Recording Nanoject II™

Enables High Precision Electrophysiological Guidance of Nanoliter Injections into the Brain

- Facilitates connection to an extracellular amplifier to allow recording of neural activity
- Supplements stereotaxic coordinates in guiding the placement of small injections
- Provides direct displacement of neuronal tracer or excitotoxin from the pipet
- Can be used on stereotaxic equipment utilizing 7.9 mm clamps
 Note: Universal Adapter 3-000-024-A supplied with unit

The Drummond Recording Nanoject II was specifically developed to improve micro-volume injection techniques used to study connectivity and function of specific brain nuclei. Designed to be operated in conjunction with an extracellular amplifier, the integrated system can be used to reliably place small volumes into targeted areas. The Recording Nanoject II is engineered to easily mount on popular stereotaxic instruments.

Recording Nanoject II™

Cat. No.	Description
3-000-204-RN	Recording Nanoject II, 100 - 240V, 50/60 Hz
3-000-205-RN	Recording Nanoject II, 100 - 240V, 50/60 Hz, CE, Euro
3-000-206-RN	Recording Nanoject II, 100 - 240V, 50/60 Hz, CE, UK

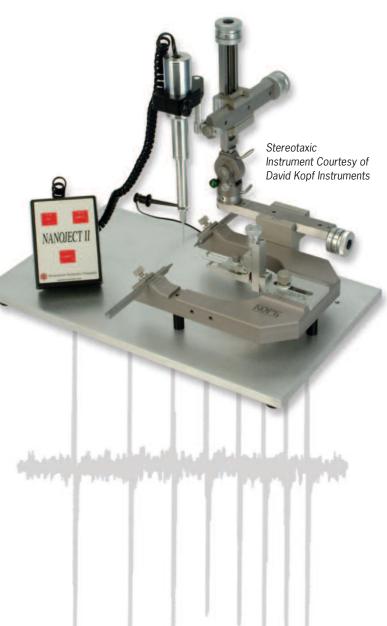
Note: Universal Adapter supplied with all the above units

Replacement Parts and Accessories

Cat. No.	Description
3-000-002-KN	O-Ring kit for Models 204-RN, 205-RN, and 206-RN includes: 1 aluminum collet, 1 small O-Ring, 1 spacer, 1 compression O-Ring, and 1 Allen wrench
3-000-024-A 3-000-027	Universal Adapter (included) 30 gauge, 2" Backfilling Needle

Replacement Glass Capillaries

Cat. No.	O.D. (mm)	Length	I.D. (mm)	Pack
3-000-203-G/X	1.14	3.5"	0.53	100
3-000-203-G/XL	1.14	7″	0.53	100





Manual Oocyte Microinjection Pipet

- Nonrotating plunger eliminates tip wobble, allows more precise deposition
- Inject volumes of 30 nanoliters or more with reproducible accuracy, drives oil interface with minimal or no overshoot
- Utilizes pulled capillary tips, supplied with 100 8" glass capillaries sufficient for preparing 200 tips. User must pull their own tips.

Cat. No.	Description	
3-000-510-X	Oocyte Pipet with 100 8" Glass Capillaries	

Oocyte Microinjection Pipet Replacement Parts

Cat. No.	Description	Pack
3-000-210-G	Replacement Glass 3.5"	100
3-000-210-G8	Replacement Glass 8"	100
3-000-027	30 gauge, 2" Backfilling Needle	1
3-000-002-K10	O-Ring Kit, Model 510-X	1
3-000-000-210-X	Wire Plunger	1

Sequencing Pipet

- The first variable volume Microdispenser designed for DNA sequencing operations
- Two tapered polycarbonate tips available (.34 mm O.D. and .19 mm O.D.) to provide precise nanoliter sample delivery into narrow (.35 mm and 0.2 mm) gel slots
- Noncontact plunger and replaceable autoclavable tips
- Volume range: .25 μL to 3 μL

The Drummond Gel Sequencing Pipet is engineered to overcome sample delivery problems typical of DNA sequencing operations.

Cat. No.	Description	Pack
3-000-203 Gel Sequencing Pipet Supplied with six .34 mm Bores		1
3-000-203-G	Replacement Bores .34 mm	10
3-000-203-G/.2	Replacement Bores .19 mm	10
3-000-002-K3	0-Ring Kit, Model 203	1



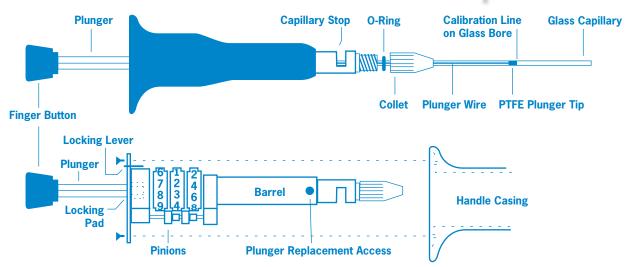


Positive Displacement Digital Microdispensers

- Direct digital set and readout for fractional microliters
- Positive lock prevents accidental volume changes
- Repeat Kit available for Model 590 and 390
- Overall volumetric accuracy of ±1% (at full volume)
- Borosilicate glass bores with stainless steel plungers, (PTFE tips on all plungers 25 μL or larger) polypropylene bore on Models 590 and 390

Cat. No.	Total Capacity (µL)	Recommended Range (μL)	Delivery Increments (μL)
3-000-510	10	2.0 to 10	0.01
3-000-525	25	5 to 25	0.1
3-000-550	50	10 to 50	0.1
3-000-575	100	20 to 100	0.1
3-000-590	1000	100 to 1000	1.0





Replacement Parts Kits for Digital Microdispensers

Cat. No.	Microdispenser Volume Range (μL)	Digital Microdispenser Cat. No.	Kit Contents
3-000-010-K	2-10	3-000-510	2 plungers, 2 O-rings, 1 collet, 1 coil spring, 1 spring guide
3-000-025-K	5-25	3-000-525	1 plunger, 2 O-rings, 1 collet, 1 coil spring, 3 PTFE tips, 1 spring guide
3-000-050-K	10-50	3-000-550	1 plunger, 2 O-rings, 1 collet, 1 coil spring, 3 PTFE tips, 1 spring guide
3-000-075-K	20-100	3-000-575	1 plunger, 2 O-rings, 1 collet, 1 coil spring, 3 PTFE tips, 1 spring guide
3-000-010-590	100-1000	3-000-590 & 3-000-390	3 Plunger Tips (polyethylene)

Replacement Bores: see page 19

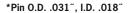
Stainless Steel Manifolds for Microtest Plates

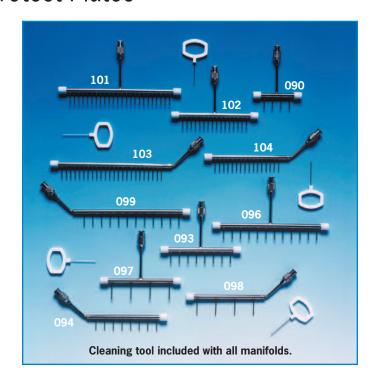
Feed, Rinse, or Aspirate Multiple Plate Positions Quickly and Easily

- Autoclavable stainless steel and PTFE construction
- Use for both sample delivery and aspiration operations
- Supplied complete with cleaning wire for easy cleaning
- Positive Luer lock connection
- Custom manifolds available

Drummond Dispensing Manifolds

Cat. No.	Description	Center to Center (mm)	Pin Length (mm)*
3-000-090	Straight, 4 place for 96 well plate	9	11
3-000-093	Straight, 8 place for 96 well plate	9	11
3-000-094	Bent, 8 place for 96 well plate	9	11
3-000-095	End Caps (all)	_	_
3-000-096	Straight, 12 place for 96 well plate	9	11
3-000-097	Straight, 4 place for 24 well plate	20	17.5
3-000-098	Bent, 4 place for 24 well plate	20	17.5
3-000-099	Bent, 12 place for 96 well plate	9	11
3-000-101	Straight, 24 place for 384 well plate	4.5	11
3-000-102	Straight, 16 place for 384 well plate	4.5	11
3-000-103	Bent, 24 place for 384 well plate	4.5	11
3-000-104	Bent, 16 place for 384 well plate	4.5	11





Repeat Kit with Valve

- Adapts to Models 390 and 590 for continuous pipetting operations
- Each kit contains: Microvalve, Three-way Valve, Stainless Steel Sinker, 30" Tygon® Tubing 3/32" I.D., Luer Pipet Tips, and 7 Polypropylene Tubing Connectors

Cat. No.	Description
3-000-091	Repeat Kit (includes valve)



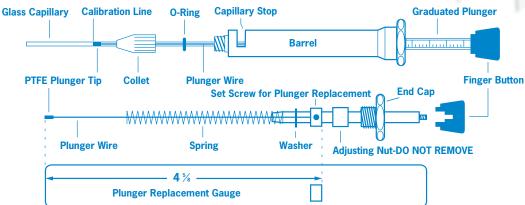


Dialamatic Microdispenser

- Adjustable, direct reading plunger sets volume
- Delivery scale engraved on plunger shaft
- Fractional deliveries possible with premarked indexes
- Volumetric accuracy of ±1% (at full volume)
- Borosilicate glass bores with stainless steel plungers, (PTFE tips on all plungers 25 μL or larger)

Cat. No.	Total Capacity (μL)	Recommended Range (μL)	Delivery Increments (μL)
3-000-210	10	2.0 to 10	1
3-000-225	25	5 to 25	1
3-000-250	50	10 to 50	2
3-000-275	100	20 to 100	10





Replacement Parts Kits for Dialamatic Microdispensers

Cat. No.	Microdispenser Volume Range (µL)	Dialamatic Microdispenser Cat. No.	Kit Contents
3-000-010-K	2-10	3-000-210	2 plungers, 2 0-rings, 1 collet, 1 coil spring, 1 spring guide
3-000-025-K	5-25	3-000-225	1 plunger, 2 O-rings, 1 collet, 1 coil spring, 3 PTFE tips, 1 spring guide
3-000-050-K	10-50	3-000-250	1 plunger, 2 O-rings, 1 collet, 1 coil spring, 3 PTFE tips, 1 spring guide
3-000-075-K	20-100	3-000-275	1 plunger, 2 O-rings, 1 collet, 1 coil spring, 3 PTFE tips, 1 spring guide

Microdispenser Accessories and Replacement Parts

Bulk Replacement Parts

Cat. No.	Description	Pack
PTFE® Tips		
3-000-0101	PTFE Tips, 25 μL	50
3-000-0102	PTFE Tips, 50 μL	50
3-000-0103	PTFE Tips, 100 μL	50

NOTES: (1) PTFE tips are not required on 20 µL and smaller units.

(2) Plunger wire and 0-Ring are not required on 1000 μ L size.

Replacement Bores for All Microdispensers

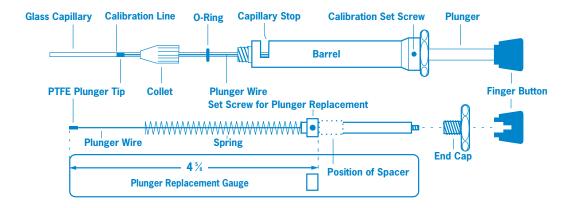
Size (µL)	Glass Color Code	Bores	Pack
1 to 5	White	3-000-105-G	100
10	Orange	3-000-210-G	100
20	Black	3-000-320-G	100
25	Double White	3-000-225-G	100
50	Green	3-000-250-G	100
100	Blue	3-000-275-G	100
100/200	Blue	3-000-275-G	海 舞時代
250	Black	3-000-388-G	J# 100
1000	Plastic Tip	3-000-590-G	Be

Fixed Volume Microdispensers

- Custom spacers available permitting fractional deliveries on all units
- Overall volumetric accuracy of ±1% (at full volume)
- Repeat Kit available for 1000 μL unit
- Precision molded plastic bores on Model 390
- Model 105 will deliver 1 to 5 μL
- Borosilicate glass bores with stainless steel plungers, (PTFE tips on all plungers 25 μL or larger)

Cat. No.	Size (μL)	
3-000-105	5	
3-000-310	10	
3-000-320	20	
3-000-325	25	
3-000-350	50	
3-000-375	100	
3-000-385	100/200	
3-000-388	250	
3-000-390	1000	





Replacement Parts Kits for Fixed Volume Microdispensers

Cat. No.	Microdispenser Volume Range (μL)	Fixed Volume Microdispenser Cat. No.	Kit Contents
3-000-005-K	5	3-000-105	2 plungers, 2 O-rings, 1 collet, 1 coil spring, 1 spring guide
3-000-310-K	10	3-000-310	2 plungers, 2 O-rings, 1 collet, 1 coil spring, 1 spring guide
3-000-320-K	20	3-000-320	2 plungers, 2 O-rings, 1 collet, 1 coil spring, 1 spring guide
3-000-325-K	25	3-000-325	1 plunger, 2 O-rings, 1 collet, 1 coil spring, 3 PTFE tips, 1 spring guide
3-000-350-K	50	3-000-350	1 plunger, 2 O-rings, 1 collet, 1 coil spring, 3 PTFE tips, 1 spring guide
3-000-375-K	100	3-000-375	1 plunger, 2 O-rings, 1 collet, 1 coil spring, 3 PTFE tips, 1 spring guide
3-000-385-K	100/200	3-000-385	1 plunger, 2 O-rings, 1 collet, 1 coil spring, 3 PTFE tips, 1 spring guide
3-000-388-K	250	3-000-388	1 plunger, 2 O-rings, 1 collet, 1 coil spring, 3 PTFE tips, 1 spring guide
3-000-010-590	1000	3-000-390	3 plunger tips (polyethylene)

Replacement Bores: See page 19



Special Sample Collection Tubes

- Single use, disposable glass capillary pipets with hydrophobic plug preset to precise volume delivery
- Plug controls volume and serves as a piston which dispenses sample when pressed downward by reusable plunger
- Once used Aqua-Cap cannot be used again, eliminates any potential cross-contamination
- Available in the sizes below in packages of 100
- 5 Plungers/Vial

Cat. No.	Description	Color Code	Qty.
7-000-0500	Aqua-Cap, 50 μL	Green	100 pcs/5 plungers
7-000-0650-LHC	Aqua-Cap, 65 μL	Blue	50 pcs/50 plungers Lithium heparin clad
7-000-1000	Aqua-Cap, 100 μL	Blue	100 pcs/5 plungers



OEM Custom Glass and Plastic Capillary Tubing

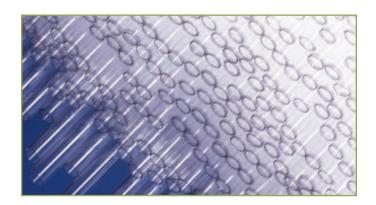
Precision Micro Liquid Transfer Components Produced to Specifications

Drummond Scientific specializes in the production of glass, plastic, and plastic coated capillary tubing for a wide range of scientific and clinical OEM applications. Our unique manufacturing capability and technical expertise can also be applied to your specialized liquid sample transfer product or kit requirement. For more information please call.

Collection Tubes

0.4 mm I.D. x 75 mm Capillary Tube

Cat. No.	Description	Package Size
1-000-800/12	Capillary	1200/Case



Video available @ www.drummondsci.com/oem.cfm





Calibrated Micropipets

- Fire polished
- Accuracy of ±0.5%
- Color coded Micropipets with sizes imprinted
- Anticoagulant treatment for clinical applications (special limited sizes)

Superior quality, Drummond precision Calibrated Micropipets are available in sizes ranging from 1 to 200 microliters. Ideal for a variety of liquid transfer work, 250 color coded micropipets, plus one 15" aspirator tube are supplied in a conveniently designed, easy-to-store cylinder. For blood transfer work, a heparinized 44.7 microliter pipet is also available.

Cat. No.	Size (μL)	Color Code	Pack
2-000-001	1 to 5	White	250
2-000-005	5	White	250
2-000-010	10	Orange	250
2-000-020	20	Black	250
2-000-025	25	Double White	250
2-000-030	30	Double Black	250
2-000-040	40	Yellow	250
2-000-044	44.7	Purple/Blue	250
2-000-044-H	44.7 Heparin	Purple/Green	250
2-000-050	50	Green	250
2-000-075	75	Purple	250
2-000-100	100	Blue	250
2-000-200	200	Red	250
2-000-201	100/200	Red	250
2-000-000	15" Aspirator Tu	be Assembly	1



Captrol III®

- Perform simple aspiration and dispensing operations from 1 to 100 µL with rotating volume control
- Use with calibrated micropipets

Cat. No.	Description	Pack
3-000-752	Captrol III	1
3-000-002-K752	O-Ring Kit Includes 2 O-Rings, 1 Small and 1 Large Hole Silicone Tip	
1-000-9003	Silicone Tip	3





Wiretrol® I

- Economical positive displacement micropipet with fingertip control
- Ideal for a wide variety of applications
- 100 glass micropipets and 1 reusable plunger
- ±1% accuracy

The Drummond Wiretrol provides the accuracy and high speed action generally found in expensive microdispensers at a fraction of the cost. A unique combination of a disposable precision bore calibrated micropipet and a stainless steel plunger with fingertip handle, the Wiretrol will accept both high and low viscosity liquids including corrosives.

Cat. No.	Sizes (μL)	Color Code	Pack
5-000-1001	1 to 5*	White	100
5-000-1003	3*	Yellow	100
5-000-1005	5*	White	100
5-000-1010	10*	Orange	100
5-000-1020	20*	Black	100
5-000-1025	25*	Double White	100
5-000-1050	50**	Green	100
5-000-1100	100**	Blue	100



Wiretrol I Plungers

Cat. No.	Description	Qty.
5-000-1000-1	Plunger, Wiretrol I, 1, 3, & 5 μL	1 ea.
5-000-1000-2	Plunger, Wiretrol I, 10 μL	1 ea.
5-000-1000-3	Plunger, Wiretrol I, 20 μL	1 ea.
5-000-1000-4	Plunger, Wiretrol I, 25 µL	1 ea.
5-000-1000-5	Plunger, Wiretrol I, 44.7 & 50 µL	1 ea.
5-000-1000-7	Plunger, Wiretrol I, 100 μL	1 ea.

Wiretrol® II

- Dual graduations for noncontact delivery
- With both standard length and short length plungers
- ±1% accuracy

The Wiretrol II provides the accuracy and convenience of the Wiretrol I but with dual graduations and a shorter plunger for noncontact delivery.

Cat. No.	Sizes (µL)	Color Code	Pack
5-000-2005	1 to 5 and 10*	White	250
5-000-2010	5 and 10*	White	250
5-000-2020	10 and 20*	Orange	250
5-000-2050	25 and 50**	Double White	250
5-000-2100	50 and 100**	Green	250
5-000-2200	100 and 200**	Blue	250

^{*}Wire plunger only



Wiretrol II Plungers

Cat. No.	Description	Qty.
5-000-2000-L	SS Plunger, 1-5/5 & 10 µL/WRTL II, Long	1 ea.
5-000-2000-S	SS Plunger, 1-5/5 & 10 µL/WRTL II, Short	1 ea.
5-000-2001-L	SS Plunger, 10 & 20 µL/WRTL II, Long	1 ea.
5-000-2001-S	SS Plunger, 10 & 20 µL/WRTL II, Short	1 ea.
5-000-2002-L	SS Plunger, 25 & 50 µL/WRTL II, Long	1 ea.
5-000-2002-S	SS Plunger, 25 & 50 µL/WRTL II, Short	1 ea.
5-000-2003-L	SS Plunger, 50 & 100 µL/WRTL II, Long	1 ea.
5-000-2003-S	SS Plunger, 50 & 100 µL/WRTL II, Short	1 ea.
5-000-2004-L	SS Plunger, 100 & 200 µL/WRTL II, Long	1 ea.
5-000-2004-S	SS Plunger, 100 & 200 µL/WRTL II, Short	1 ea.



^{**}Wire Plunger with PTFE tip

Microcaps[®]

- The original, disposable Drummond Microcap
- The most accurate (±1%)¹
- The most dependable
- The easiest to use micropipet available anywhere!

Drummond Microcaps are a fast, safe, clean, and accurate way to transfer liquids in micro quantities. They are precision-bore glass capillary tubes cut to predetermined lengths so that fill volumes are constant and precise. Microcaps are inexpensive and disposable.

Using a Microcap is simple. Capillary action draws the fluid into the tube and a squeeze of the bulb will dispense it. For spotting applications such as TLC, a unique spotting holder is available which will allow the liquid to be dispensed simply by touching the tube to the spotting surface.

100 Microcaps and one Bulb Dispenser included.

¹Volume 45, No. 8, Analytical Chemistry, Carl F. Emanuel

Special Sizes

Cat. No.	Capacity (μL)	Length (mm)	Relativ O.D.	e (in.) I.D.
1-000-0001	0.1	16	.0180	.0035
1-000-0002	0.2	32	.0180	.0035
1-000-0005-64	0.5	64	.0210	.0039
1-000-0010-64	1.0	64	.0220	.0056
1-000-0010-55	1.0	55	.0250	.0060
1-000-0020-55	2.0	55	.0260	.0085
1-000-0030-55	3.0	55	.0340	.0104
1-000-0050-55	5.0	55	.0340	.0134
1-000-0200-32	20.0	32	.0470	.0351
1-000-0400-80	40.0	80	.0430	.0314
1-000-1000-100	100.0	100	.0610	.0444

Special Note: Usually any capacity/length combination can be custom ordered. Please call for a quotation.

Bulb Dispensers

Cat. No.	Description	Pack
1-000-9000	Bulb Dispenser	1 ea.
1-000-9003	Silicone Tips	3

PCR Pipets

- Disposable, positive displacement micropipets with stainless steel plungers
- Measure true sample volumes regardless of viscosity, eliminates contamination from residual aerosols
- Decontaminate at temperature of 400°F or higher

Cat. No.	Description	Pack
5-000-1001-X	5 μL PCR Pipet	100 Glass Micropipets/100 Plungers
5-000-1001-X10	10 μL PCR Pipet	100 Glass Micropipets/100 Plungers





Bulb Dispenser with Microcap Inserted

Standard Sizes

	Capacity	Length	Relativ	ve (in.)
Cat. No.	(μL)	(mm)	0.D.	l.D.
1-000-00025	0.25	32	.0210	.0039
1-000-0005*	0.5	32	.0220	.0056
1-000-0010*	1.0	32	.0260	.0079
1-000-0020*	2.0	32	.0300	.0111
1-000-0030	3.0	32	.0340	.0136
1-000-0033	3.33	36	.0340	.0136
1-000-0040	4.0	32	.0340	.0157
1-000-0050*	5.0	32	.0370	.0176
1-000-0060	6.0	38.4	.0370	.0176
1-000-0066	6.66	72	.0340	.0135
1-000-0070	7.0	44.8	.0370	.0176
1-000-0080	8.0	44	.0380	.0189
1-000-0090	9.0	49.5	.0380	.0189
1-000-0100*	10.0	41	.0315	.0219
1-000-0150	15.0	54	.0340	.0234
1-000-0200	20.0	64	.0355	.0248
1-000-0250	25.0	65	.0382	.0276
1-000-0300	30.0	78	.0382	.0276
1-000-0350	35.0	70	.0430	.0314
1-000-0400	40.0	52	.0555	.0390
1-000-0447	44.7	51.8	.0565	.0413
1-000-0500	50.0	100	.0430	.0314
1-000-0750	75.0	101	.0514	.0383
1-000-0800	80.0	93	.0565	.0413
1-000-1000	100.0	116	.0565	.0413
1-000-2000	200.0	127	.0710	.0557

*Available in 5-Pack (1-000-125-K); includes one vial each of 1-000-0005, 1-000-0010, 1-000-0020, 1-000-0050, and 1-000-0100.





HEMATO-CLAD® Mylar® Wrapped* Hematocrit Tubes

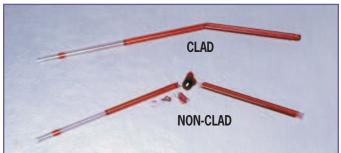
HEMATO-CLAD Hematocrit Tubes combine the precision of glass with the safety provided by a Mylar overwrap. Now, for the first time, you can give your laboratory staff enhanced safety with no compromise in accuracy. With HEMATO-CLAD Tubes the chance of contamination due to glass fragments or aerosols is greatly reduced. Accidental breakage is significantly reduced particularly when pressing the tube into sealing clay. In the event of breakage, the Mylar wrapping will help contain the sample (blood) and provides an added layer of protection against cuts from broken glass.

Note: HEMATO-CLAD Mylar Wrapped Hematocrit Tubes comply with FDA, NIOSH, CDC, and OSHA safety recommendations for the use of capillary tubes for blood collection.

Cat. No.	Description	Package Size
1-000-7500-C/5	Plain (Blue)	1000/Case
1-000-7500-HC/5	Heparin Coated (Red)	1000/Case

Cases are comprised of 5 vials with 200 capillaries each.





Plasticrit Plastic Hematocrit Tubes

Plasticrit Plastic Hematocrit Tubes provide the identical capillary action as glass hematocrit tubes. They eliminate the possibility of contamination due to breakage with no compromise in accuracy. These 75 mm polycarbonate pipets are available plain or heparinized.

Note: Plasticrit Hematocrit Tubes comply with FDA, NIOSH, CDC, and OSHA safety recommendations.

Cat. No.	Description	Package Size
8-000-7520/5	Plain	1000/case
8-000-7520-H/5	Heparin Coated	1000/case

Cases are comprised of 5 vials with 200 capillaries each.



^{*}Patent Number 5,173,266

Ordering Information

Where to Order

All of the items listed in this catalog are available through most major laboratory supply distributors. For a list of dealers, either call Drummond or refer to our web site (www.drummondsci.com) for a complete list.

Drummond Scientific Company, 500 Parkway, P.O. Box 700, Broomall, PA 19008

800/523-7480, 610/353-0200, FAX: 610/353-6204

Shipping

Unless specified, most Drummond products are shipped by UPS or FedEx, FOB Broomall, PA.

Terms: Net 30 days with established credit.

Returns

Returns are accepted prepaid, with prior authorization and are generally subject to a 15% restocking charge.

Export Orders

Drummond maintains a select group of foreign stocking dealers and/or can be of immediate assistance for foreign shipment. Refer to our web site for a list of our foreign dealers.

O.E.M.

Drummond is a major supplier of private labeled liquid handling equipment worldwide. We welcome the opportunity to discuss development and production of new items or adaptations of existing products.

Item Page	Э
Capillary Tubing2	1
Captrol III®	2
Collection Tubes	1
HEMATO-CLAD® Hematocrit Tubes25	5
Manifolds	8
Microcaps®24	4
Microdispensers, Dialamatic	9
Microdispensers, Digital	7
Microdispensers, Fixed Volume20	0
Micropipets, Calibrated	2
Programmable Nanoject III, Nanoject II Auto/Oocyte Injector, Recording Nanoject II 11-15	5
Pipet, Oocyte Microinjection	6
Pipets, PCR	4
Pipet, Sequencing	6
Pipet-Aid®, Original	0
Pipet-Aid®, Dual Pump Filtration	0
Pipet-Aid®, Hood Mate®	9
Pipet-Aid®, Original Portable	8
Pipet-Aid®, Portable XL	6
Pipet-Aid®, Portable XP	7
Pipet-Aid®, Portable XP2	5
Plasticrit Hematocrit Tubes25	5
Repeat Kit18	8
Tissue Culture Nosepiece, EZ Grip	4
Wiretrol® I and II	3







To learn about Drummond's continuing innovations, look for these and more upcoming ads in:

Biotechniques
Cell
Drug Discovery New
GEN
Journal of Neuroscience
Journal of Neurophysiology
Lab Equipment

Lab Manager
Nature Neuroscience
Nature Methods
Trends in Neuroscience
Select Science
Stem Cells
The Scientist





500 Parkway, Box 700 Broomall, PA 19008 1-800/523-7480 1-610/353-0200 FAX: 1-610/353-6204

www.drummondsci.com www.pipet-aid.com

©Copyright, Drummond Scientific Co., 2017 Rev. 10/17 Printed in USA Tygon is a Registered Trademark of Norton

Nanoject II™ is a Trademark of Drummond Scientific Co.

HEMATO-CLAD, Pipet-Aid, Captrol III, Wiretrol I, Wiretrol II, Hood Mate, and Microcaps are Registered Trademarks of Drummond Scientific Co.

