

# Nanoliter Injector with Standard Controller

For oocyte injection and applications where glass micropipettes are preferred



The standard configuration of the Nanoliter 2010 includes the standard controller which is simple to setup and operate.

### Features

- Microprocessor-controlled injector
- Direct piston displacement in capillary glass
- Discrete aliquot injections in 16 increments between 2.3 and 69 nL
- Standard controller
- Optional foot switch available

### Benefits

• No syringes required

### **Applications**

- Oocyte injection
- Neo-cortex injections

The **Nanoliter 2010** system is perfect for oocyte injection and applications which use pulled micropipettes for injections in the nanoliter range. It offers fast, accurate injections in 16 preset aliquots. All injection material is contained within a glass pipette, which is typically backfilled with oil.

The system Includes:

- (2) vials 3.5" capillaries (100)
- Replacement "O" rings
- (1) Allen wrench
- (1) MicroFil<sup>™</sup> MF34G backfilling needle
- (2) sample µTip<sup>™</sup> pre-pulled micropipettes

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By setting the DIP switch on the side of the Nanoliter2010 controller, the injection volume can be changed from 2.3 to 69.0 nL in 16 steps. Up to 100 injections may be triggered per filling. Since the volume of a normal Xenopus oocyte is about 500nL, the instrument has the capability to inject from less than 1% to over 10% of the total volume of the oocyte in one preset step increment.

### **DIP Switch Settings**

	DIP Switch Settings			
Volume(nL)	1	2	3	4
2.3	U	U	U	U
4.6	D	U	U	U
9.2	U	D	U	U
13.8	D	D	U	U
18.4	U	U	D	U
23.0	D	U	D	U
27.6	U	D	D	U
32.2	D	D	D	U
36.8	U	U	U	D
41.4	D	U	U	D
46.0	U	D	U	D
50.6	D	D	U	D
55.2	U	U	D	D
59.8	D	U	D	D
64.4	U	D	D	D
69.0	D	D	D	D

#### **SPECIFICATIONS**

INJECTION VOLUME	Variable-discrete aliquot volumes		
REMOTE CONTROL	Yes		
GLASS OD	1.14mm		
GLASS ID	0.5mm		
STEP	12.7µm/step		
INIECTION SPEED	Slow: 23nL/s		
	Fast: 45nL/s		
FILL SPEED	Slow: 23nL/s		
	Fast: 46nL/s		
EMPTY SPEED	92nL/s		
SMALLEST VOLUME	2.3nL		
INJECTIONS PER FILLING, MAX.	100 injections		
POWER	100-240VAC, 12V DC		
	1000mA		
Shipping Weight	3 lb. (1.1kg)		

#### **ORDERING INFORMATION**

NANOLITER2010 Nanoliter 2010 and Standard Controller System includes Nanoliter 2010 injector, standard controller, 1 vial 3.5 in. capillaries (300), replacement "O" rings, Allen wrench, MicroFil™ MF34G backfilling needle and two sample µTip™ pre-pulled 10 µm micropipettes.

<b>OPTIONA</b>	L ACCESSORIES/REPLACEMENT PARTS
504949	Replacement 3.5-in. glass capillaries, 1.14mm OD (300)
504950	Replacement 7-in. glass capillaries , 1.14mm OD (300)
TIP10XV119	Micropipettes (10) prepulled 10 μm
40239	Nanoliter2010 Adapter for SMARTouch™
300521	Replacement O-rings (five)
500778	Replacement Nanoliter Injector Mounting Adapter
500299	Pistons, 5-pack
MF34G-5	MicroFil, 34 g, pack of 5
MICRO2T	SMARTouch controller



## WORLD PRECISION INSTRUMENTS

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