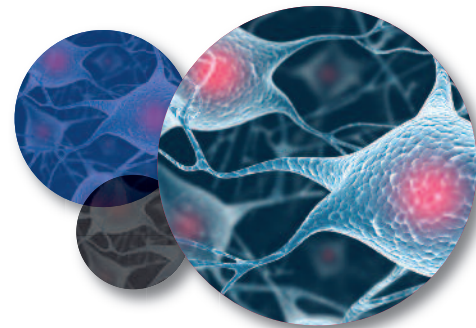


MicroJect 1000 Max System



The NEW! MicroJect 1000 MAX (MJ 1000) is the newest addition to the family of BTX transfection products. The MJ 1000 MAX micro-injector is an alternative method to deliver genes, proteins, macromolecules and micro-beads by direct injection into cells, tissues and oocytes simply and efficiently. This microinjection system provides a reliable, consistent and precise delivery of volumes through stable pressure regulation maintaining this pressure for a set duration of time, controlled digitally. The compressed gas internally controlled pressure system, allows the precise delivery of desired volumes ranging from femtoliters to microliter volumes. The MJ 1000 MAX is capable of holding a cell, oocyte or early stage embryo stationary while simultaneously using a separate pressure channel for injections. The MJ 1000 MAX is versatile enough to provide the same consistent performance needed to inject large volumes into tissue such as capillaries, or pico volumes, for nuclear injections. It is also ideal for the gentle transfer of delicate fetal or stem cells into oocytes.

Pressure Control Features

- **Fill/Clear/Hold**

The MicroJect 1000 Max provides key pressure features designed to maximize your injection potential with two negative and three positive pneumatic capabilities. The negative pressure feature or vacuum function allows researchers the ability to fill the micropipettes from their tips. The "Fill" feature reduces waste of valuable injection material. The "Hold" feature provides the means to immobilize and manipulate a cell or oocyte using a micropipette. The positive pressure feature allows for the precise discharge of fluids by simply using the "Clear" function of the system.

Balance Pressure

It's all about the balance of pressure with our MicroJect 1000 MAX system. The unique "Balance" feature provides a secondary balance pressure to maintain positive pressure on the injection pipette. This is important before and after injections to avoid the chance of dilution of sample due to capillary action. It also prevents clogging of your injection needle.

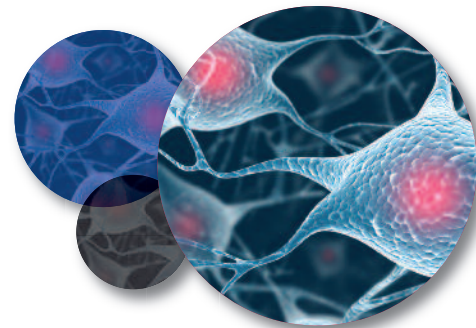
Accessories

The MicroJect 1000 MAX system provides the "MAX"imum potential for your microinjection applications. The durability and precision of the MJ 1000 is coupled with two footswitches for easy operation of the Clear/Fill features. The system also includes two pipette holders and the appropriate adaptors.

applications

- **Nuclear Transfer Applications**
- **Transgenic Animal Development**
- **Injection of Mouse, Xenopus, Zebrafish and other oocytes**
- **Intra-cytoplasmic sperm injection**
- **Cell injection**
- **Extracellular brain injections**
- **Injection of DNA, mRNA, microbeads neurotransmitters, kinases and other proteins**

MicroJect 1000 Max System



specifications

Input Gas Pressure	70 to 105 p.s.i. (480 to 720 kPa)
Injection Pressure	0.2 to 60 p.s.i. (413 kPa), regulated, multi-turn control
Balance Pressure	0.1 to 3.5 p.s.i. (68.9 kPa), regulated, multi-turn control, other ranges available upon request
Fill Vacuum	Internally produced, -12.0 p.s.i. (-82 kPa), unregulated
Holding Vacuum	Internally produced, 0 to 3 in H ₂ O (0 to 0.75 kPa or 0 to 0.1 p.s.i.), regulated
Clearing Pressure	Input gas pressure, unregulated
Injection Timer	0.01 to 0.99 sec in 10 msec steps; 1 to 99 sec in Pulse Width 1 sec steps
Injection Count Display	Digital, 0 through 9999
Duration Mode	Internally timed or externally gated
Time Trigger	Front panel, foot switch, or external TTL pulse (BNC)
Pressure Units	p.s.i./kPa; switch selectable
Pressure Monitor	BNC connector, 10 mV/p.s.i.
Pressure Readout	Inject, balance, clear, output port
Line Voltage	100/110/220/240 VAC
Power Usage	220 W
Meter Accuracy	0.1% full scale
Foot Switches	Inject, fill, hold, and gated; provided in Plus and Deluxe pkgs.
Weight	6.8 kg (15 lb)
Dimensions, H x W x D	11 x 38 x 25.5 cm (5 x 15 x 10 in)
Accessories Supplied	Input, output and holding hoses

ordering

Item #	Description
45-0752	MicroJect 1000 Max System includes: MicroJect 1000 pico-injector with Injection, balance, clear/fill and hold pressures. Also included are two footswitches, input/output hoses, holding hose, two pipette holders and input adaptor for hoses, power cord and manual.
45-0751	MicroJect 1000 Plus System; MicroJect 1000 pico-injector with Injection, balance, clear/fill and hold pressure. Includes one foot-switch, input/output hoses, holding hose, one pipette holder and input adaptor for hoses, power cord and manual.
45-0750	MicroJect 1000 Basic System: MicroJect 1000 pico-injector with Injection, balance, clear/fill and hold pressure, power cord and manual.

BTX[®]

HARVARD APPARATUS

The Electroporation Experts

84 Ocober Hill Road, Holliston, MA 02472 USA

phone 508.893.8999 fax 508.429.5732 toll free 800.272.2775

e-mail techsupport.btx@harvardapparatus.com

www.btxonline.com