

MF-830

Microforge

Microforge for fire-polishing of electrodes in patch clamping.

In patch clamping, contact is made between the electrode and the cell membrane to measure cell potential, without damaging the cell membrane. This microforge assists the process by using fire-polishing technology to polish the microelectrode tips. A powerful microscope (525× total magnification) is included for making electrodes with tips less than 2μm. Independent, easy-to-operate manipulators are provided for both heater and electrode. A fine movement unit on the side of the heater moves vertically to bring the heater closer to the tip even under high magnifications. The heater is made smaller so as not to get in the way and is turned ON/OFF with a foot switch. The electrode holder is in the form of a leaf spring, which is easy to detach/attach, and the narrower operating area facilitates ease of use.



* MF-830 exclusively assists to polish the microelectrode tips; the process of fire-polishing. If the process of cutting and bending is required additionally, please purchase [MF-900](#) with MF-OP; optional lens set for the higher magnification, so that both of the process can be performed.

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Specification

Accessories included		Foot Switch Dedicated Electrode Holder Spare Heater Spare Lamp Power Cord Hex Wrench
Movement range	Heater manipulator	X14mm, Y14mm, Z14mm
	Heater manipulator vertical fine movement	20mm
	Electrode manipulator	X12mm, Z28mm
	Microscope focus movement range	30mm
Magnifications		Eyepiece:15× Objective lens:5× and 35× Total magnifications:75× and 525×
Glass capillary		ø1mm ~ ø1.5mm
Working voltage		AC100V, 50/60Hz AC120V, 50/60Hz AC220V, 50/60Hz AC240V, 50/60Hz
Power consumption		Approx. 35W
Dimensions/Weight		W200 × D350 × H300mm, 6.5kg

Consumables

Model	Product	Description
PT-A	Platinum heater	100μm × 300mm
MF-900L3	Lamp	

Specifications are subject to change without notice.

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