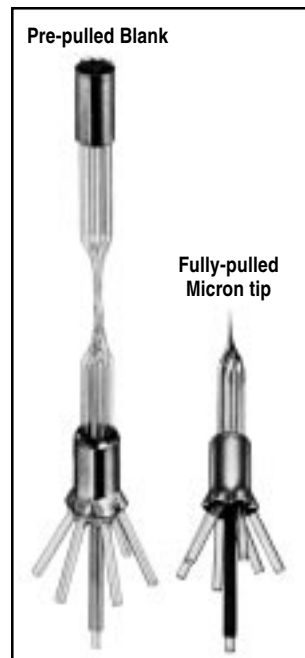


Multi-Barrel Micropipettes

7-Barrel Iontophoresis Micropipette



- Easy filling
- Minimal tip resistance
- Minimal leakage
- Available pre-pulled or fully-pulled

The MS-7P Micropipette has been designed for iontophoretic use as well as pneumatic ejection of drugs. The standard blank consists of seven barrels, pyrex Omegadot tubing, 1.5 mm outer diameter and 1.2 mm inner diameter, pre-pulled to 2 mm formation as shown. The design of the micropipette readily lends itself to electrical connection by inserting Ag wire or to pressure tube attachment for pneumatic use. The overall length of the

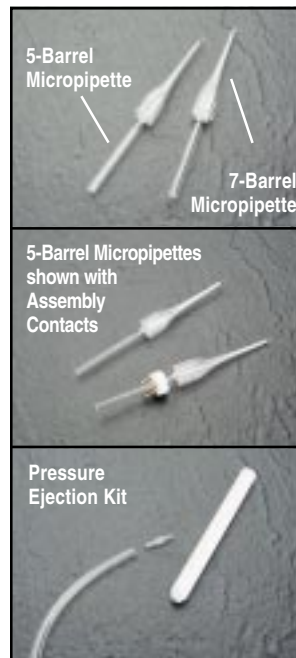
blank assembly is 10 centimeters. The micropipette is supplied as either pre-pulled blanks or fully-pulled to a micron tip as shown. The micron tip is not bumped and therefore can be finalized prior to use.

Features

- The orifice ratio of each barrel is 0.80 and thus is optimized for minimal tip resistance when pulled to micron size.
- Omegadot tubing permits easy filling.
- Fanned-out outer barrel assembly provides separation thus avoiding leakage due to spills and any cross-coupling between barrels.
- The 22 mm long twisted segment of the blank assembly assures singular tip formation during pulling action thus provides flexibility in a selection of a desired tip configuration.

Catalog No.	Model	Micropipettes
CGS 8690.75	MS-7PB	Micropipette 7-Barrel, 1.5 mm OD Borosilicate Glass, pre-pulled blank, pkg. of 20
CGS 8691.75	MS-7MT	Micropipette 7-Barrel, 1.5 mm OD Borosilicate Glass, fully-pulled approx. 20 μm tip, pkg. of 10
CGS 8692.75	P-5	Micropipette 5-Barrel, 1.5 mm OD Borosilicate Glass, pre-pulled blank, pkg. of 50

Harvard/ASI 3- 5- 7-Barrel Micropipette



- For use in extracellular recording studies
- Thick wall glass reduces 'cross talk' between channels
- Work extremely well for:
 - Microiontophoretic ejection of charged substances when used with the assembly contacts
 - Pressure ejection of insoluble compounds when used with the pressure ejection kit

With the aid of computerized production techniques, these micropipettes have the high quality and reproducibility not available with similar handmade pipettes. These micropipette blanks are compatible with all pipette pull-

ers that handle 3.0 mm (0.118 in) diameter glass. The blanks have a patented solid glass ball pulling tip on the tapered end and are fabricated out of 3.0 mm (0.118 in) Omega Dot Pyrex tubing. These features eliminate time consuming prepping of the Pipettes prior to pulling.

These micropipettes are for use in any extracellular electrophysiological study where the local application of pharmacological agents in the immediate area of the pipette tip is desired. Each barrel of the micropipette has a 100 micron glass filament fused to the side which aids in filling. The assembly contacts are prefabricated silver wire contact leads which provide a reliable, inert and secure contact between an iontophoretic current source and the drug solutions in the side barrels of the micropipette. The pressure ejection kit includes fittings and tubing and provides a rapid, secure and reusable method of connecting the micropressure ejection source to the barrels of these pipettes, adding extra flexibility to experiments.

Catalog No.	Product
CGS 8693.75	3-Barrel Micropipette, pkg. of 50
CGS 8694.75	5-Barrel Micropipette, pkg. of 50
CGS 8695.75	7-Barrel Micropipette, pkg. of 50
CGS 8695.75	Assembly Contacts for 3-Barrel, pkg. of 10
CGS 8697.75	Assembly Contacts for 5-Barrel, pkg. of 10
CGS 8698.75	Assembly Contacts for 7-Barrel, pkg. of 10
CGS 8699.75	Pressure Ejection Kit (Includes 10 Fittings and 3.1 m (10 ft) of Tubing)