



Eliminate the cost and trouble of making your own micropipettes — WPI can quickly supply your need for consistently sized pre-pulled glass micropipettes for injection of dyes or proteins into cells, oocytes and for many other biomedical laboratory applications. Tip diameters (ID) range from 0.1 to 10 micrometers.

- Schott Duran borosilicate glass
- 0.5 micrometer and smaller ID micropipettes include an internal glass fiber for easy filling
- Tip inner diameter tolerance $\pm 20\%$
- Short taper yields high strength
- Nominal length ≈ 50 mm
- OD:ID = 1.33:1
- Standard capillary outer diameters are 1.0 mm (thin-wall) or 1.14 mm
- Every pipette individually tested and inspected
- Vacuum packed

Silanized Tips (Luer Shank)

Silanization waterproofs the glass to retard water when inserting into cell. This will not let the outside fluid run down the pipette and get inside so easily.

Micro Cannula

- 0.4mm O.D., 0.2mm I.D. tubing
- Autoclavable
- Biocompatible Perfluorocarbon tubing material

KZ1101 Micro Cannula, 3-inch

Shank	Tip I.D.	Shank Length	Glass O.D.	Filament	Fire Polished	Catalog #
PLAIN	0.1 μm	—	1.0 mm Thin-Wall	Yes	No	TIP01TW1F
	0.2 μm	—	1.0 mm Thin-Wall	Yes	No	TIP02TW1F
	0.3 μm	—	1.0 mm Thin-Wall	Yes	No	TIP03TW1F
	0.4 μm	—	1.0 mm Thin-Wall	Yes	No	TIP04TW1F
	0.5 μm	—	1.0 mm Thin-Wall	Yes	No	TIP05TW1F
	1 μm	—	1.0 mm Thin-Wall	No	Yes	TIP1TW1
	2 μm	—	1.0 mm Thin-Wall	No	Yes	TIP2TW1
	5 μm	—	1.0 mm Thin-Wall	No	Yes	TIP5TW1
	10 μm	—	1.0 mm Thin-Wall	No	Yes	TIP10TW1
	10 μm	—	1.14 mm A203W glass *	No	Yes	TIP10XV119
30 μm	—	1.0 mm Thin-Wall	No	Yes	TIP30TW1	
LUER	0.1 μm	—	1.0 mm Thin-Wall	Yes	—	TIP01TW1F-L
	0.2 μm	—	1.0 mm Thin-Wall	Yes	—	TIP02TW1F-L
	0.3 μm	—	1.0 mm Thin-Wall	Yes	—	TIP03TW1F-L
	0.5 μm	—	1.0 mm Thin-Wall	Yes	—	TIP05TW1F-L
	1 μm	—	1.0 mm Thin-Wall	No	—	TIP1TW1-L
	2 μm	—	1.0 mm Thin-Wall	No	—	TIP2TW1-L
	5 μm	—	1.0 mm Thin-Wall	No	—	TIP5TW1-L
	10 μm	—	1.0 mm Thin-Wall	No	—	TIP10TW1-L
	30 μm	—	1.0 mm Thin-Wall	No	—	TIP30TW1-L
	LUER/SILANIZED	5 μm	1 inch	1.0 mm Thin-Wall	No	—
5 μm		2 inch	1.0 mm Thin-Wall	No	—	TIP5TW1LS02
10 μm		1 inch	1.0 mm Thin-Wall	No	—	TIP10TW1LS01
10 μm		2 inch	1.0 mm Thin-Wall	No	—	TIP10TW1LS02
30 μm		1 inch	1.0 mm Thin-Wall	No	—	TIP30TW1LS01
30 μm		2 inch	1.0 mm Thin-Wall	No	—	TIP30TW1LS02

* 10 μm (ID), 1.14 mm capillary pipettes are for use in WPI's Nanoliter 2000.

µTIP SAMPLER ASSORTMENTS

TIPMIX01-05	Two each, 0.1, 0.2, 0.3, 0.4, 0.5 μm ID, plain shank
TIPMIX05-10	Two each, 0.5, 1, 2, 5, 10 μm ID, plain shank
TIPMIX01-05-L	Two each, 0.1, 0.2, 0.3, 0.4, 0.5 μm ID, Luer
TIPMIX05-10-L	Two each, 0.5, 1, 2, 5, 10 μm ID, Luer

This micro cannula is ideal for placement in the carotid or femoral artery of mice, rats, and other small animal blood vessels. It can be used with a pressure transducer (WPI's **BLPR2**) for blood pressure measurement, or in conjunction with a micro-syringe injection system (like WPI's **UMPIII** or **MMP** pumps). The incorporated standard female luer fitting makes connecting to existing experimental plumbing quick and easy. The cannula is provided with a contoured-tip stainless steel stylet (trocar) to facilitate placement using established techniques. A movable "shoulder" ring provides a tie-in point to prevent accidental removal. The cannula may be left in place for 2 hours or more, and with proper care and cleaning, may be re-used multiple times. Instructions for use included.

