Patch Clamp Pipettes, Glass Micropipettes – Pre Pulled

Part No. PCPs-1

Parameters (Pre-configured pipette, Part No. PCPs-1A)

Glass: Thin wall borosilicate, with capillary (also available w/o capillary for bioengineering applications).
Total length of pipette 5.5 cm
Outer diameter at tip (OD) 1.5 μm
Wall thickness at base 0.17mm
Outer diameter at base (OD): 1.5 mm

Pipettes pulled on highly stable Sutter Instruments P-97 puller

See Figs.1-2 for details on pages 2 & 3.

Fig. 1. Representation of the Pipette Tip in 3D

Legend:
1. Only about ~25um of pipette tip is shown.
2. Approximate diameters of the tip are shown in different views (in perspective, left; and from the top, right)
Fig. 2. Schematic diagram of a representative pipette

A

TIP (view B)  
Base (view B)  
5.5±5 cm

B

1 - 5 mm*

C

1 - 3(+) μm**

Wall thickness = 0.17mm
Legends. Schematics of representative glass micropipette. (Actual dimensions vary by part number).

A: General view of the pipette: Approximate proportion and geometry of a typical pipette shown with dimensional parameters. Dashed ellipses denote sections of the pipette (tip and base) detailed in panel B (rotated 90 degrees).

B: Detailed view of the tip and base of the pipette: Dashed ellipse denotes part of pipette (tip close-up) detailed in panel C.

* - "Tip length" is measured from tip and traversing downward to the section of the pipette where the diameter is approximately 90% of that at the base. This length varies according to the size of the tip opening.

C: Detailed view of the tip of the pipette.

** - Diameter of the tip is measured under a microscope and is adjustable. Typical diameter of the pipette is 2±1 μm at the tip. Internal filament is not shown for clarity.