

# Tunglass-1

*Glass-insulated tungsten microelectrode for extracellular recording*

Manufactured using *Kation Scientific's* unique micropipette puller, the *Gravipull-3*, this glass insulated tungsten microelectrode represents a truly exceptional solution to many drawbacks associated with more traditional metal microelectrodes.

The industry standard gold-plated pin on top allows a low-resistance galvanic connection to most headstage probes. The 1.5 mm O.D. borosilicate glass sheathing provides an additional support for the fine tungsten wire and allows a convenient way to handle and to attach this microelectrode to any holder.

Next to the holder section, the glass forms a 40 to 50  $\mu\text{m}$  thick electrically insulating layer sturdily adhering to the lead element tungsten wire for about a length of 35 mm. Finally, the glass insulation tapers onto the tungsten tip, etched to 10 to 12° fine angle, ending in a circa 3  $\mu\text{m}$  thick durable glass ridge.

## The main advantages are:

- ★ Easy and safe handling
- ★ True pin-hole free insulation
- ★ Re-usable many times
- ★ Deep tissue penetration
- ★ Fits into many guide tubes
- ★ Select tip length & impedance (Z)
- ★ Mating female pin is provided
- ★ Autoclavable to 140 °C

<b>Tunglass-1, standard</b>	Cat. no. W1011
Glass-insulated tungsten microelectrode	
Kation Scientific, LLC P.O. Box 14674 Minneapolis, MN 55413 USA <a href="http://www.kationscientific.com">www.kationscientific.com</a>	

