MD-1505 Dual-Channel Liquid Swivel

Package Insert

6/12/96 Update A-1449

This disposable, liquid swivel was designed specifically for microdialysis sampling. The lumen of the swivel is lined with Teflon, a biologically inert polymer. The swivel channels have the following swept volumes:

Center Channel: 1.5 µL
Side Channel: 4.5 µL

Use

Attach upper body of swivel to appropriate support. If using with BAS BeeKeeper or components, see User Guide A-1815 for installation instructions. When connecting or disconnecting tubing and connectors attached to the swivel inlet and outlet tubes, use extreme care to avoid bending these tubes. The swivel should be turned via an attachment to the swivel body instead of by tugging on the swivel cannulae.

Do not exceed a flow rate of 5 µL/min.

Do not connect more than 2 meters of FEP Teflon tubing to swivel.

Failure to observe these limits will result in excessive back pressure within the swivel and will induce leaking.

Maintenance

After use, **swivel should be thoroughly flushed with distilled water, followed by a rinse of 70% ethanol.** The best way to accomplish this is by using the normal syringe pump at flow rates < 5 µL/min.

If trying to rinse the swivel by hand, use the smallest syringe possible. Empty the syringe and attach to the

tubing on one end of the swivel. Place tubing on other end of swivel in water (or 70% ethanol). Pull on the syringe plunger to create suction and pull fluid through tubing attached to the swivel. **Do not attempt to push fluid through syringe with a handheld syringe!**

Caution!

Do not allow Ringer's solution, artificial CSF or other saline solutions to dry in the swivel. Dried salts will block the lumen and damage the seal.

Do not bang swivel.

Do not soak or immerse in water or detergent.

Do not place in an ultrasonic bath.

Do not push fluid into swivel with a hand-held syringe.

In case of blockage

This is a disposable swivel which cannot be disassembled and repaired. To prolong the lifetime, thoroughly rinse the swivel after every use, following instructions on this insert. Perfuse with filtered solutions.

If blockage occurs, try to dislodge it by reversing flow through the blocked cannula using a distilled water rinse at a flow rate < 5 µL/min. If this fails, carefully insert a tungsten filament with a diameter < 0.15 mm and again follow with a reverse flow rinse.

Lifetime

With proper care, the Teflon swivel should perform reliably for periods of 6 months or more.

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