

Eicom Cannula Swivel

TCS2-23

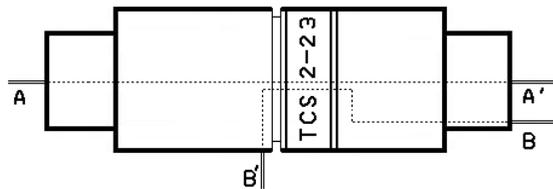
(Utility Patent)

Users Manual

This product allows long term cannulae sampling from freely moving rats, mice or other small laboratory animals when you set up with other parts provided by Eicom.

How to use

Channel A is used for outlet and Channel B is for inlet, most of the time. According to your requirements, you can change the in and out directions.



Materials

All liquid contact surfaces are composed of Polytetrafluoroetylen (PTFE).

Both channel stainless steel pipes are Stainless Steel 316 with inner tubing of PTFE with 0.15 mm inner diameter. The body is also composed of PTFE.

Content Volume

Channel A has 1.5 μ L, Channel B 4.5 μ L.

Pressure Tolerance

Each channel has tolerance for the pressure induced by 5 μ L/min flow with 0.1 mm x 2 mm tubing after each channel. The TSU Swivels have sufficient tolerance for blood pressure monitoring.

Torque

Rotation torque is very minimal at 5-6 gcm. To decrease the force to animal, we recommend using an arm to extend the radius.

Cautions

Maintenance and Storage

- Never sonicate the swivel. After using the swivel with solutions, please rinse both channels with pure water to remove salts completely. Then rinse with ethanol or methanol and store under dry conditions.

- When using with microdialysis, bacterial growth is known and interferes with the recovery of compounds. This problem can be prevented by using diluted chlorine bleach (Sodium hypochlorite, NaClO).

Physical Damage

- The inner diameter of each channel is as thin as 0.15 mm. Please avoid perfusing solid compounds. If it is clogged with a solid substance, please exchange with a new one.
- If the pipe of TSU swivel receives a side impact, the pipe will bend or be damaged at the bottom part of the pipe and this causes leaks. Please avoid side impacts to the pipe and do not bend.

Replacing Schedule

After long-term use, caused by differences in thermal expansion rate and friction, leaks from the body or joint part of pipe can occur. Such leaks cause rusting of bearing and the rotation becomes un-smooth. The body is uniformly molded and the swivel cannot be repaired. Please replace with new TSU swivel.

Warranty

If you find a leak at the first use, please contact Eicom for replacement.

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