

SINGLE OPTOGENETIC CANNULA SYSTEM

In Vivo Preclinical Research Component Specification [SS0170 Rev. A]

Guide Cannula

- Stainless steel hollow tube with plastic pedestal
- Guides an optic fiber to specific study site
- Pedestal Diameter: 3.5 mm
- Pedestal Height: 5mm or 8 mm
- Fits with 200 μm , 300 μm , 400 μm fibers sizes
- All single cannulas mates with PN 303/OFC caps with a hole
- Autoclave up to 270°F, ETO, Gamma Radiation, Alcohol Bath

Dummy Cannula

- Screw on dummy cannulas are made with a stainless-steel wire attached to a plastic cap
- Also called Stylet or Obturator
- Screws onto guide pedestal to prevent tissue entry after removal of Internal cannula
 - Standard Screw on Cap Sizes and Dimensions:
 - Small: Diameter: 4.3 mm, Height: 6.5 mm

Housing

- Molded plastic housing which holds optic fiber in place
- Secure housing to optic fiber with epoxy

Fiber Optic Cap

- Plastic round threaded cap which secures the housing to the Guide Cannula when fiber is activated

Internal Cannula

- Stainless steel hollow tube which inserts into and extends below the Guide Cannula enabling consistent depth penetration
- Also called Injector/Infusion Cannula
- Transfer fluid or crystals from the system to the animal
- Pairs with Connector Assembly which hydrostatically seals the Internal with the injection tubing and syringe to hold the Internal in place during injection
- All Single Internals (MRI) mate with PE50 tubing
- Autoclave up to 270°F, ETO, Gamma Radiation, Alcohol Bath

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