

Pre-made vascular catheters for mice and rats from Instech Laboratories, covering all major vascular and specialty access sites, jugular, femoral, carotid, bile duct, intrathecal, portal, gastric, and tail vein. Each catheter is pre-assembled in medical-grade polyurethane to a specific insertion length matched to animal body weight, with a rounded tip and silicone anchoring collar fitted at the correct implantation depth.

SPECIFICATIONS

Species	Mice and rats
Primary material	Medical-grade polyurethane (PU), recommended for all implanted segments
Tubing sizes	0.8Fr (0.13 × 0.25 mm), 1Fr (0.18 × 0.36 mm), 2Fr (0.43 × 0.69 mm), 3Fr (0.64 × 1.0 mm)
Mouse access sites	Jugular vein, carotid artery, femoral vein, femoral artery, tail vein
Rat access sites	Jugular vein, femoral vein, femoral artery, carotid artery, bile duct, portal vein, gastric, intrathecal, tail vein
Anchoring	Silicone collar pre-positioned at insertion length for each body weight variant
Hub connection	22ga or 25ga luer stub, PinPort (needle-free), or VAB-integrated
Device compatibility	Instech VABs (1–4 channel, 22ga and 25ga), PinPorts, tether and swivel systems
Sterilisation	EtO sterilised; sealed packaging available for GLP studies
Dead volume (approx.)	1Fr: 0.3 µL/cm, 2Fr: 1.5 µL/cm, 3Fr: 3.0 µL/cm
Lock solution maintenance	Every 7 days (closed VAB); every 3–4 days (exteriorised PinPort)

APPLICATIONS

- ▶ Intravenous drug infusion and continuous dosing via jugular or femoral catheter
- ▶ Serial blood sampling for pharmacokinetic and toxicokinetic studies
- ▶ Arterial blood pressure monitoring and arterial blood sampling
- ▶ Glucose clamp and metabolic studies requiring simultaneous infusion and sampling

FEATURES

- ▶ Mouse catheters: jugular vein (2Fr PU, 25ga), carotid artery (1-2Fr PU), femoral vein/artery (1-2Fr PU), tail vein cannula
- ▶ Rat catheters: jugular vein, femoral vein/artery, carotid artery, bile duct, portal vein, gastric, intrathecal (32ga), tail vein cannula
- ▶ Pre-assembled to body weight, silicone anchoring collar pre-positioned at correct insertion length
- ▶ Rounded tip profile, reduces vessel wall trauma and fibrin sheath formation for long-term patency
- ▶ Medical-grade polyurethane construction, biocompatible, kink-resistant, precision-extruded for 22ga and 25ga device connections
- ▶ Rat intrathecal catheter, 32ga (0.8Fr) PU with PTFE-coated stylet, gold standard for lumbar subarachnoid access
- ▶ Bile duct catheters, dual-purpose design cannulates both bile duct and duodenum via a single implant
- ▶ Compatible with Instech VABs (1–4 channel), PinPorts (22ga, 25ga, 28ga), tether and swivel systems
- ▶ EtO-sterilised packaging available for GLP and regulatory studies
- ▶ Raw tubing (PU, PE, silicone) and custom configurations available on request

- ▶ Bile sampling and enterohepatic circulation studies via bile duct cannulation
- ▶ First-pass metabolism studies via portal vein access
- ▶ CNS and pain research via intrathecal drug delivery
- ▶ Chronic vascular access studies with group-housed rodents via VAB system