



Drug Development Services

Smithers Avanza Toxicology Services provides integrated preclinical safety assessment of small molecules, biologics, nutraceuticals, vaccines, chemicals, and intermediates. Our team achieves excellence by providing clients with sound science, technical proficiency, and quality assurance, while meeting clients' timelines. We conduct short- and long-term *in vivo* studies with integrated support services. Our team has extensive experience in conducting GLP-compliant studies that meet global regulatory test guidelines.

Preclinical Services

- General Toxicology
- Developmental and Reproductive Toxicology
- Safety Pharmacology (CV/Respiratory/CNS)
- Infusion Studies
- Vaccine Safety Testing
- Pathology Services
- Bioanalytical Services
- Pharmacokinetic and Toxicokinetic Services

Expertise:

- Attending veterinarian
- AALAS-certified technicians
- Study directors with PhDs and DABTs
- Registered quality assurance (GLP) certified auditors
- Senior staff with over 30 years of individual drug development experience
- Board-certified veterinary pathologists with over 15 years of experience through Vet Path Services

Routes of Administration

- Oral (gavage, capsule, diet, drinking water)
- Parenteral (IV, IM, SC, IP)
- Bolus and continuous infusion
- Dermal
- Ocular
- Pulmonary
- Other routes as required

Species

- Mouse
- Rat
- Rabbit
- Guinea Pig
- Minipig
- Nonhuman Primate
- Dog