



Pharmacokinetics and Metabolism

Pharmacokinetics and metabolism data are vital elements in evaluation of a new pharmaceutical product. SRI has more than 30 years of experience conducting in vivo pharmacokinetic and metabolism studies for clients in the pharmaceutical, biotechnology, and medical products industries. We are also a leader in the use of human and animal tissues in vitro to predict interspecies differences, drug interactions, and human drug metabolizing enzymes. In addition, we have full bioanalytical capabilities to support these studies. Our experience and capabilities in all of these areas make SRI uniquely qualified to assist you throughout the process of product discovery and development.

Pharmacokinetic Evaluations

SRI offers extensive capabilities to conduct pharmacokinetic evaluations and analyses in animals. These studies provide information for selection of dose levels, dosing frequency, formulation, routes of administration, and exposure levels:

- Pharmacokinetic and toxicokinetic analysis of blood (plasma) drug levels
- Absorption, distribution, metabolism, and elimination (ADME) studies
- Mass balance/materials accountability
- Metabolite isolation and characterization
- Bioavailability studies
- Formulation screening
- Plasma protein binding
- Specialized studies such as bile duct cannulation
- Biodistribution studies of DNA-based therapeutics

These studies can be conducted in any laboratory species, including nonhuman primates. Routes of administration include oral, intravenous, topical, intraperitoneal, inhalation, intrathecal, and infusion as well as other intended delivery methods for your compound.



Related Bioanalytical and Synthetic Capabilities

SRI has wide experience in the quantitative assessment of pharmaceutical agents in biological samples. Examples include antimicrobials, antivirals, chemotherapeutics, chelators, diagnostic imaging agents, DNA-based therapeutics, oligonucleotides and plasmids, and peptides. We offer method development and full validation. Our bioanalytical support technologies include LC/MS-MS, GC/MS, HPLC, CE, and GC. SRI also employs specialized quantitative techniques such as PCR-based methods to detect oligonucleotides, in situ hybridization for tissue and subcellular localization, and microbiological assays. Finally, SRI has broad capabilities in radiolabeled chemical synthesis in support of pharmacokinetics and metabolism evaluations.

You Make the Call

For further information, contact our Client Services Team:

Toll Free: (866) 451-5998

Phone: (650) 859-3000

Fax: (650) 859-3041

Email: biosciences@sri.com

<http://www.sri.com/biosciences>