Drug Metabolism and Pharmacokinetics

*High Quality Results with Rapid Turnaround Time*

**In-Vitro ADME Profiling Assays**
- Solubility
- Lipophilicity - Log D 7.4
- Stability: Buffer, Plasma and Intestinal Fluids
- Permeability: PAMPA & Caco - 2
- Protein Binding (HT Dialysis and RED - Plasma, Microsomes and Brain Homogenates)
- Blood Partitioning
- Metabolic Stability (Microsomes, Hepatocytes, rCYP’s & S9)
- Non-CYP Mediated Pathways (MAO and AO Enzymes)
- Drug-Drug Interaction
  - CYP Inhibition: Reversible & Time Dependent (Single Point and Kinetics)
  - CYP Phenotyping (Chemical Inhibition & rCYP’s)
  - Enzyme Induction: (PXR and Hepatocytes)
- Metabolite Identification and Trapping Assays

**In-Vivo Pharmacokinetics**

**Routes of Administration**
- IV Bolus
- IV Infusion
- Intra Duodenal
- Intra Portal

**Biological Matrices**
- Blood / Plasma / Serum / Urine / Feces
- Bile
- CSF
- Tissue Sample

**Service Offerings**
- Bioavailability
- Site Specific Absorption (Rat and Guinea Pig)
- CNS Penetration Studies (Total, Discrete Brain Regions and CSF)
- Biliary & Urinary Excretion
- Dose Ranging and Proportionality
- In-Vivo DDI Studies (Rodent, Guinea Pig, Rabbit and Dog)
- PK / PD Modeling

**Species**
- Rodent (Mice, Rat & Hamster)
- Guinea Pig
- Rabbit
- Beagle Dog

Going beyond commitment, we deliver.