

## **In vitro ADME Services**

Pharmaron offers a comprehensive selection of *in vitro* ADME services to help accelerate the drug discovery process from compound ranking to lead candidate selection. A team of well-trained ADME scientists, coupled with state-of-the-art instruments in our modern ADME laboratories enable generation of highly reproducible and accurate data rapidly in a cost-effective manner. We offer both standardized and customized assays. Pharmaron's ADME services can be contracted individually or combined with chemistry and biology as part of a fully integrated program. With compound management and shipping systems in the US, you can expect a quick and smooth data turn around.

### **Solution Properties**

- Aqueous solubility
  - Apparent solubility
  - Thermodynamic solubility
- Partition coefficient (Log D)
- Plasma/microsomal protein binding
  - Equilibrium dialysis
  - Ultrafiltration
- Chemical stability
- Blood partitioning
- Hemolytic potential

### **Drug Absorption & Transport**

- PAMPA
  - Lipid-PAMPA
  - HDM-PAMPA
- Caco-2 permeability screening
- MDCK permeability screening
- P-gp mediated drug efflux (Caco-2)
- P-gp mediated drug-drug interaction (Caco-2)

### **Drug Metabolism**

- Liver microsomal metabolic stability
- Liver S9 fraction metabolic stability
- Hepatocyte metabolic stability
- Plasma/blood stability

### **Met ID**

- Metabolite profiling
- Metabolite identification
- Reactive metabolite screening by trapping GSH

### **Drug-Drug Interaction**

- CYP isoform identification
  - CYP phenotyping
  - Using specific chemical inhibitors
- CYP inhibition
  - Drug substrate-based CYP inhibition
  - Fluorescence-based CYP inhibition
  - Cocktail substrate-based CYP inhibition
  - Time-dependent CYP inhibition
- CYP induction
  - Drug substrate-based

#### **Contact Us**

For more information on how Pharmaron can assist with your drug discovery & development programs in a cost-effective and quality manner, please contact us.