

Sinclair Research Center provides GLP-compliant In Vivo DMPK services from discovery through development in our state-of-the-art facility near Columbia, Missouri.

Drug Discovery/Drug Development

- ☛ Radiolabeled and Non-Radiolabeled Test Articles
- ☛ Blood, Plasma, and Tissue Concentration
- ☛ Mass Balance/Excretion (14C & 3H)
- ☛ QWBA (In Vivo at Sinclair, Sectioning and Analysis Subcontracted)
- ☛ Pharmacodynamics
- ☛ Biliary Excretion (mouse, rat, dog)
- ☛ Volatile Collection
- ☛ Metabolic Caging for Multiple Species (rodent, cat, dog, goat, swine)

Pharmacokinetics/Toxicokinetics

- ☛ Pharmacokinetics/Toxicokinetics
- ☛ Single or Multiple Dosing (In-life)
- ☛ IVGTT, OGTT, & Glucose Clamps
- ☛ Bioequivalence & Bioavailability
- ☛ PK/TK Analysis
- ☛ Meal Interference/Glycemic Challenge

Routes of Dose Administration

- ☛ Parenteral (IV/SC/IM/IP)
- ☛ IV Infusion
- ☛ Intranasal
- ☛ Dermal / Intradermal / Transdermal patch
- ☛ Vascular Access Ports (VAP)
- ☛ Rodent Vascular and Non-Vascular Cannulas
- ☛ Ocular
- ☛ Auricular
- ☛ Rectal / Intravaginal
- ☛ Oral (gavage / liquid / tablet / capsule)
- ☛ Intracoronary / Intraventricular (percutaneous access)

Test Facility

- ☛ AAALAC Accredited Facility – Since 1995
- ☛ Rodents (Mouse, Rat, Hamster)
- ☛ Canines
- ☛ Domestic and Miniature swine (Sinclair, Yucatan, Hanford)
- ☛ High Capacity for Small and Large Animals
- ☛ Rabbits
- ☛ Felines
- ☛ Other Species Available

Analytical Support – Alliance Partner Service

- ☛ Discovery and GLP-compliant bioanalytical chemistry services (SRC Alliance Partner, ABC Laboratories)
- ☛ Sample Analysis-Routine Bioanalysis
 - *Quantitative Analysis of Drug and Metabolites in Biological Matrices*
 - *Dose Formulation Analysis, Interference Testing*
- ☛ Analytical Method Development, Validation (Full, Cross, & Partial), Method Transfer & Sample Analysis (LC-MS/MS, HPLC, ICP-MS, EIA, RIA, CZE, and Immunoblots)
- ☛ Dose Analysis (Radiochemical Purity, Specific Activity)
- ☛ Metabolite Characterization & Identification
- ☛ In addition to 14C labeling ABC Laboratories has experience with the following isotopes:
 - ^3H , ^{35}S , ^{32}P , ^{90}Y , ^{111}In , ^{166}Ho , ^{188}Re , $^{99\text{m}}\text{Tc}$, and others.
- ☛ Immunoassays
 - *ELISA and RIA (125I)*
 - *Method Development and Validation, Routine Sample Analysis*
- ☛ SRC can also work with the Sponsor's in-house analytical laboratory or with a Sponsor designated analytical laboratory in support of the studies.

