



LAMPIRE Biological
Laboratories, Inc

DMPK & Acute Tox Studies

Vivarium Services

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DMPK & Acute Tox Studies



Overview

LAMPIRE delivers fully customizable, flow cytometry-based toxicology solutions designed to evaluate cellular health, function, and safety with high sensitivity and precision. Our multiparametric approach enables detailed assessment of cell viability, oxidative stress, cell cycle dynamics, genotoxicity, and immune response at single-cell resolution.

Supporting both early discovery and preclinical development, our studies generate high-quality, decision-ready data to better understand compound effects across biological systems. Backed by experienced scientific teams and robust quality systems, LAMPIRE serves as a trusted partner from initial screening through regulatory submission.

➔ Why Choose Us?

- Flexible, client-specific protocols tailored to compound, model, and study goals
- Tailored study designs, including surgical model development, catheterization and tissue perfusion, formulation expertise, brain region isolation, dorsal root ganglia, and lymph node collection
- Comprehensive protection of your data from raw acquisition through final reporting
- Cost effective studies that meet the requirements of multiple regulatory agencies
- US based, AAALAC accredited facilities with quality oversight

Capabilities

- In Vivo PK Services:
 - Hamster, guinea pig, rabbit, rat, mouse, and mini-pig.
 - Vascular and intestinal cannula implantations
 - PK/PD Modeling
 - Micro-serial sampling
 - Diverse dosing methods: IV, PO, SC, or IM
- Cell viability & cytotoxicity analysis
- Oxidative stress management
- Cell cycle disruption assessment
- Genotoxicity monitoring
- Immunotoxicology profiling
- Cytokine & signaling analysis

Benefits

Confident Toxicity Readouts

Differentiate live, apoptotic, and necrotic cell populations using fixable viability dyes to generate clear, actionable toxicity data across study conditions.

Early Insight into Cellular Stress

Measure intracellular ROS and mitochondrial function with sensitive probes to detect subtle oxidative imbalance before overt toxicity occurs.

Understanding of Cell Cycle & DNA Impact

Use DNA-binding dyes to profile G0/G1, S, and G2/M phases, alongside micronucleus analysis, to evaluate proliferation changes and chromosomal damage.

Comprehensive Immune & Signaling Insight

Combine immune profiling with intracellular cytokine staining and phospho-flow (pSTAT, pERK, pAKT, pNF-κB) to understand functional responses and underlying signaling pathways.



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