

citoxlab
Safety and Health Research



Your partner for
environmental science



www.citoxlab.com

Your partner for environmental science

Citoxlab has more than 20 years of experience in supporting studies for environmental assessment required for EMA, agrochemical registration and industrial chemical notification.

Our analytical laboratories provide techniques that support the use of all matrices used in aquatic ecotoxicology studies. We have wide experience with organics, inorganics, metals, UVCB substances (e.g. low water solubility, instability, coloration).

With a variety of ecotoxicology studies, significant experience with a wide range of species in aquatic and terrestrial ecotoxicology, we have a vast amount of experience in performing avian acute toxicology and reproduction studies.



Aquatic ecotoxicology

- Growth inhibition studies with aquatic plants
- Acute toxicity and reproduction tests on aquatic invertebrates
- Acute and prolonged toxicity studies to fish



Terrestrial ecotoxicology

- Acute oral and contact toxicity to honey bees
- Laboratory and extended laboratory toxicity studies with non-target arthropods (NTA)
- Acute and reproduction studies on earthworms
- Acute oral/dietary studies and reproduction studies on birds



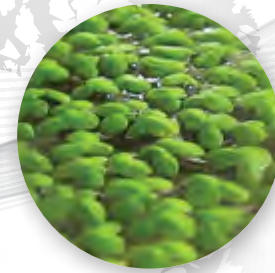
Bacterial testing and environmental fate

- Activated sludge respiration inhibition
- Ready biodegradability (Closed Bottle Test)
- Adsorption/desorption
- Hydrolysis



Analytical services

- GC-FID
- HPLC
- LC-MS
- GC-MS
- TOC
- LC/IPC-MS
- MIRAN



Aquatic plants

- Algae
- Lemna

Aquatic invertebrates

- Chironomids
- Daphnias



Aquatic vertebrates

- Carps
- Zebrafishs
- Rainbow trouts



Bees

- Honey bees

Non-target arthropods

- Parasitic wasps
- Predatory mites
- Carabid beetles
- Green lacewings



Soil organisms

- Collembolas
- Earthworms

Avian

- Quails

TOXICOLOGY SERVICES

- General toxicology in all species
- Special toxicology
 - infusion, Inhalation, Dermal, Ocular
- Immunotoxicology
- Regenerative medicine
- Reproductive toxicology including minipigs and NHPs
- Carcinogenicity studies also in rasH2 and p53+/- mice
- Genetic toxicology: ICH compliant package
- *In vitro* toxicology: BCOP, h-CLAT, KeratinoSens™, DPRA, Photo 3T3-NRU, Episkin™, chicken eye test
- Agrochemical / chemical / REACH
- QSAR
- Physico-chemical testing
- Ecotoxicology: wide range of test species

SAFETY PHARMACOLOGY

- Integrated safety pharmacology in toxicology studies
 - CV (JET), BP
 - Respiratory (JET), plethysmography
 - CNS (FOB) and JET-EEG
- Safety pharmacology core battery
- *In vitro* assays

- GLP compliant ion channel testing panel (hERG +5)
- CNS *ex vivo* models for seizure liability screening
- Screening and follow-up models
 - Rodent and non-rodent LVP telemetry
 - Anesthetized models
 - Polysomnography
 - Gastrointestinal motility

DMPK, BIOANALYSIS, BIOMARKERS

- ¹⁴C and ³H ADME studies in all species
- *In vitro* metabolic clearance, metabolite ID and profiling, DDI package (metabolism and transporters)
- Bioanalysis: LC-MS/MS, GC-MS/MS, LC-ICP/MS, LC-Radiodetection, ELISA, RIA
- Toxicogenomics, miRNA: Affymetrix™ accredited service provider, next generation sequencing (Illumina®)
- Immunology: 10-color flow cytometer, Luminex, Meso Scale

MEDICAL DEVICE

- Biocompatibility testing
- Cardiovascular stents, electrophysiology

- and structural heart studies
- Long-bone defects and craniomaxillofacial/dental models
- Spinal fusion models
- Joint and cartilage repair models
- Regenerative medicine (growth factors, biomaterials, cell and gene therapy)

SPECIALIZED EXPERTISE

- Juvenile studies including minipigs
- Ototoxicity in rats
- Fertility studies in rodents and NHPs
- Radiation safety and efficacy studies
- Drug transporter studies and Drug-Drug Interactions
- Tissue Cross Reactivity (TCR): human and animal tissue banks
- Gene therapy vector biodistribution via qPCR
- ES cell testing: devTOX™ and cardioTOX™ (with Stemina)
- Lead optimization and predictive toxicology services: Leadscreen™



GLP CERTIFIED

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