

# Comprehensive GLP-regulated Ecotoxicology Services

Environmental toxicity studies play a critical role in understanding the potential risks and hazards associated with various compounds. It also facilitates protection and preservation of ecosystems, promote sustainable practices, and safeguard human and environmental health.

At Intox, we provide a comprehensive range of environmental toxicology and ecotoxicology studies to determine threshold toxicity concentrations of a range of test compounds. Our teams of qualified and experienced environmental chemists provide integrated approach to ecotoxicity and environmental risk assessments, delivering high quality reliable results to meet the needs of the global industry and environmental regulators. With end-to-end capabilities to support advance ecotoxicology and analytical chemistry techniques using a wide variety of species and a track record of successful regulatory submissions, we can offer customized study protocols to meet the clients' requirements.

## Comprehensive array of ecotoxicology services at Intox:

### Aquatic

In order to meet the regulatory requirements for agrochemicals, industrial chemicals, and human and veterinary pharmaceuticals, comprehensive aquatic ecotoxicology data plays a vital role in Environmental Risk/Impact Assessments (ERA and EIA). Intox provides a diverse range of aquatic ecotoxicology tests, encompassing the following:

- Growth Inhibition Test (Algae: OECD-201)
- Acute Immobilisation Test (*Daphnia magna*: OECD-202)
- Fish, Acute (Guppy, carp, Zebrafish: OECD-203)

### Terrestrial

Diversity of terrestrial organisms – plants, invertebrates, and vertebrates – living in and on the soil makes hazard assessment of a chemical on a terrestrial environment critical and more complex. Our terrestrial ecotoxicology tests include.

- Avian (Dietary, Acute oral: OECD-205/223)
- Earthworm (Acute: OECD-207, Reproduction: OECD-222)
- Subchronic Toxicity Test (Earthworm: OCSPP-850.3100)
- Honeybee Acute Toxicity (Oral: OECD-213, Contact: OECD-214)
- Nitrogen Transformation Test (Soil Microorganisms: OECD-216)
- Carbon Transformation Test (Soil Microorganisms: OECD-217)

## Salient features of our services:

Test system - Identification/Characterization certificate

Use of replicates

Monitoring of variables (water /soil / environment parameter)

Use of reference item

Use of organic solvents as vehicle

Limit of solubility, Analytics

Geometric series of dose selection

Optimization of study results and validity criteria

Endpoint - Mortality / Inhibition / immobilization

Lithal dose (LD50), Lithal concentration (LC50), Effective concentration (EC50), No observed effective concentration (NOEC), Low observed effective concentration (LOEC)

## Proven expertise and valuable experience

> 100 Acute toxicity studies- Fish

> 96 Acute Toxicity studies- Honeybees (Contact)

> 85 Avian Acute Oral Toxicity-Japanese quail

> 85 Acute toxicity studies- Honeybees (Oral)

> 80 Acute Toxicity Test - Earthworm

> 50 Algal Growth Inhibition Test

> 55 Acute Immobilization Test - *Daphnia magna*

> 35 Avian Acute Oral Toxicity studies - Pigeon

> 25 Avian Acute Oral Toxicity studies - Chicken

> 10 Avian Dietary Toxicity Studies

> 5 Biological Method Validations on Mosquito larvae - *Aedes aegypti*

## Animal husbandry at Intox:

### Aquatic

#### Algae

Test species: Unicellular green algae,  
*Pseudokirchneriella subcapitata*

#### Daphnia

Test species: *Daphnia magna*

#### Fish

Test species: *Brachydanio rerio*  
(Zebra fish), *Poecilia reticulata*  
(Guppy), *Cyprinus carpio*  
(Common carp)

### Terrestrial

#### Honeybee

Test species: *Apis mellifera*

#### Earth worm

Species: Earthworm - *Eisenia foetida*

### Terrestrial (Avian)

#### Chicken

Species: *Gallus domesticus*

#### Pigeon

Species: *Columba livia*

#### Quail

Species: *Coturnix japonica*

