

| TOXICOLOGY | MUTAGENICITY | ECOTOXICOLOGY | CHEMISTRY |



TOXICOLOGY AND MUTAGENICITY



TOXICOLOGY AND MUTAGENICITY

INTOX offers a complete package of toxicological assessment program including mutagenicity, for your products which may be either,

- **your investigational new drugs / chemical entities in their discovery phases, or development phases, or**
- **generics aspiring for a me-too registration.**

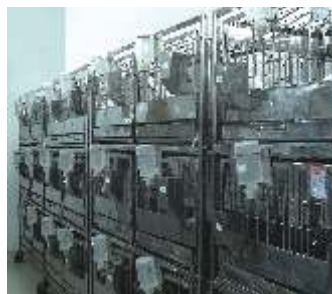
We specialize in offering you a customized testing program suitable for your products, with protocols satisfying requirements of safety assessment specified by International / National regulatory authorities and organizations.

REACH COMPLIANCE

INTOX offers you a complete REACH compliance program with respect to toxicological studies, ecotoxicity studies and physico-chemical studies.



TOXICOLOGY



GENERAL TOXICITY

- Acute Toxicity
- Repeated Dose Toxicity (14 day / 28 day / 90 day)
- Chronic Toxicity (180 day / 1 year)
- Carcinogenicity (18 month / 24 month)

REPRODUCTIVE TOXICITY

- Fertility Studies
- Developmental Toxicity Studies
- Perinatal and Postnatal Studies
- Multi-generation Studies

OTHER STUDIES

- Skin / Eye Irritancy
- Sensitisation
- Neurotoxicity
- Implantation / Local Tolerance Test
- Other Protocol Specific Studies

IN-VITRO TOXICITY

- Cytotoxicity

FIELD / HOUSEHOLD STUDIES

- Health Monitoring Studies on Human Volunteers for household pesticides and crop protection products
- Health Monitoring Studies on Livestock for crop protection products

TEST SYSTEMS

Rat, Mouse, Rabbit, Guinea-pig, Hamster, Farm Animals.

ROUTES OF EXPOSURE

Oral, Dermal, Inhalation, Parenteral,
Others - ocular, otic, nasal, vaginal ...

MUTAGENICITY



INTOX offers both *in-vivo* and *in-vitro* studies to evaluate genetic toxicological potential of a product.

IN VITRO STUDIES

- Ames Test
- Mammalian Cytogenetic (Chromosome Aberration) Test
- Micronucleus Test
- Mammalian Cell Gene Mutation Test

IN VIVO STUDIES

- Mammalian Cytogenetic (Chromosome Aberration) Test
- Micronucleus Test
- Dominant Lethal Test



**OECD GLP CERTIFIED by
The Netherlands GLP Compliance Monitoring Program,
Food and Consumer Products Safety Authority (VWA), The Netherlands.**

The National GLP Compliance Monitoring Authority, Department of Science & Technology, Government of India.

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ANALYTICAL CHEMISTRY AND ECOTOXICOLOGY



ANALYTICAL CHEMISTRY AND ECOTOXICOLOGY

INTOX offers services in Analytical Chemistry and Ecotoxicology Studies to supplement the registration program for your products.

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ANALYTICAL CHEMISTRY



The Analytical Chemistry Laboratory of INTOX offers a comprehensive range of services to support your chemistry requirements for product registration.

The laboratory also supports the in-house general toxicity studies, in-house ecotoxicity studies, and with its bio-analytical capabilities, the pharmaco-kinetics (PK) / toxico-kinetics (TK) studies.

Capabilities...

- Test Substance Characterization
- Method Development
- Method Validation
- Verification of concentration, stability and homogeneity in vehicles and solvents
- Stability and Homogeneity in feed mixes
- Active ingredient concentration in aerosol preparations
- Pharmaco-kinetics, Toxico-kinetics
- Impurity Profiling and 5 Batch Analysis
- Storage stability studies

Physical and Chemical Properties

- Physical State / Appearance
- UV-Visible Spectrum
- Melting Point / Melting range
- Boiling Point / Boiling Point range
- Specific Gravity / Density / Bulk density
- Solubility in water
- Solubility as a function of pH
- Solubility in Organic Solvents
- Vapour pressure
- pH
- Dissociation Constant
- Partition coefficient
- Surface Tension
- Viscosity (kinematic and dynamic)
- Flash point
- Flammability
- Explosive properties
- Pyrophoric properties
- Oxidizing properties
- Corrosive properties
- Photolytic Stability
- Hydrolytic Stability

Formulation Characteristics

- Wettability
- Emulsion stability
- Suspension stability
- Persistence Foam
- Pourability
- Dry sieving
- Wet sieving
- Dust content
- Spontaneous dispersibility
- Container content compatibility

ECOTOXICOLOGY

The five Ecotoxicology laboratories at INTOX are equipped with custom designed testing chambers for respective test systems.

The Ecotoxicology studies are supported with dedicated animal house for avian test systems, and the services of Analytical Chemistry Laboratory.

Studies on Aquatic and Terrestrial Organisms

- Algae
- Daphnia
- Fish
- Honey-bees
- Earthworm
- Silkworm
- Chicken
- Pigeon
- Quail



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