



**YOUR TRUSTED PARTNER FOR
REGULATORY STUDIES OF
AGROCHEMICALS AND
SPECIALTY CHEMICALS**

We are the partner of choice for end-to-end regulatory data generation and GLP studies for agrochemicals, biocidal products, specialty and industrial chemicals

OUR SERVICES INCLUDE

Chemistry

- ✦ Impurity profiling and 5 batch analysis
- ✦ Physical chemical properties and stability studies

Environmental fate studies (14C radio-labelled studies)

- ✦ Rate and route of degradation on soil (aerobic and anaerobic)
- ✦ Adsorption/ desorption in soil
- ✦ Rate and route of degradation on sediment systems
- ✦ Hydrolysis
- ✦ Direct and indirect aqueous photolysis
- ✦ Photolysis on soil surface
- ✦ Mobility in soil

Ecotoxicology

Aquatic

- ✦ Acute toxicity to fish, daphnia, algae, and Lemna
- ✦ Fish embryo acute toxicity (FET) test
- ✦ Fish, early-life stage toxicity test
- ✦ Fish, short-term toxicity test on embryo and sac-fry stages
- ✦ Fish, juvenile growth test
- ✦ Chironomus immobilization test
- ✦ Daphnia reproduction test
- ✦ Water-sediment Myriophyllum spicatum toxicity test
- ✦ Bioaccumulation in fish: aqueous and dietary exposure

Metabolism, residue and persistence studies

- ✦ Residue method validation for residues (body fluids, animal / plant matrices, water, soil and air)
- ✦ Persistence studies
- ✦ Toxicokinetics (OECD 417)
- ✦ Metabolism studies in
 - Crops and rotational crops OECD 502
 - Livestock (comparative, general and residues)- OECD 503
- ✦ Skin absorption (in vitro method) – OECD 428 (14C radio-labelled / cold)



Terrestrial

- ✦ Acute toxicity to earthworms, honeybees (oral and contact), and birds
- ✦ Avian dietary and reproduction toxicity tests
- ✦ Earthworm reproduction test
- ✦ Collembola reproduction test
- ✦ Honeybee larval toxicity tests (single and repeated exposure)
- ✦ Honeybee chronic oral toxicity test
- ✦ Terrestrial plant tests (seedling emergence and growth test & vegetative vigour test)
- ✦ Silkworm acute toxicity test
- ✦ Soil microorganism tests including nitrogen and carbon transformation
- ✦ Activated sludge respiration inhibition test
- ✦ Ready biodegradability



Household pesticides - laboratory bio-efficacy studies and field trials for household insect control products

Insects culture available for testing: Mosquitoes (*Aedes*, *Anopheles* and *Culex*), Cockroaches (American and German species), Houseflies (*Musca domestica*)

- ✦ Flying insect efficacy: Studies in Peet Grady and 20/30 M3 chambers
- ✦ Mosquito larvicide testing: for *Aedes*, *Anopheles*, and *Culex* species
- ✦ Surface and spray efficacy: Testing persistence (cement, wood, tiles, glass), space spray, and indoor residual spray (IRS) against mosquitoes, cockroaches, and houseflies (CIB & RC and WHOPES compliant)
- ✦ Long lasting insecticide net (LLIN) bioassays
- ✦ Gel-bait studies: Targeting cockroach species
- ✦ DSKD testing: Direct Spray Knockdown tests for cockroaches
- ✦ Housefly efficacy: Testing at both larval (maggot) and adult stages

Evaluation against following major storage pests:

- ✦ Rice weevil (*Sitophilus oryzae*)
- ✦ Red flour beetle (*Tribolium castaneum*)
- ✦ Pulse beetle (*Callosobruchus chinensis*)

Bio-efficacy study with field collected insects i.e., Termites, Ants etc.

Evaluation of pet's products against different mosquito species

Toxicology studies*

- ✦ Acute six pack studies
- ✦ In vitro toxicology
- ✦ Mutagenicity studies
- ✦ Repeat dose toxicology studies (28 day - 180 day)
- ✦ Reproduction and teratology studies
- ✦ Chronic and carcinogenicity studies

*performed as per OECD GLP through our partner laboratory



30+ years for GLP experience

30,000+ regulatory studies

Multidisciplinary scientific team

Supporting development and testing of all varieties of agrochemicals, bio-stimulants, industrial chemicals, **UVCBs and other specialty chemicals**

Proven track record in meeting **international regulatory** requirements



CENTRAL INSECTICIDES BOARD &
REGISTRATION COMMITTEE

CIB&RC



OECD



FAO



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CIPAC

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EEC



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農林水産省

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