



Ecotoxicology services

SynTech[®]
Research

www.syntechresearch.com

A full ecotoxicology package

SynTech Research offers a full ecotoxicology package to GLP or GEP standards with laboratory tests, semi-field and field studies on both terrestrial and aquatic non-target organisms. SynTech Research conducts the following studies, commonly required for chemical and GMO regulatory dossiers; other studies can be undertaken on request.

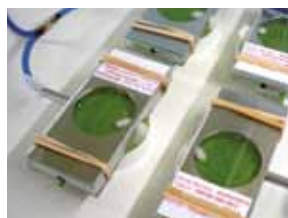
Lab and extended lab testing on non-target arthropods (NTA)

- Artificial or natural substrate
- Mortality and sublethal effects
- Predatory mites
- Aphid parasitoids
- Lacewings, ladybirds
- Rove and ground beetles
- Lycosid spiders
- Hemipterans, hoverflies
- Egg parasitoids
- Whitefly parasitoids



Aged residue and semi-field testing on NTA

- Natural substrates
- Mortality and sublethal effects
- Duration of effects
- In-field and off-field scenarios
- NTA as in lab testing
- Dung flies and beetles
- Contact or feeding routes of exposure



Field testing on NTA

- Short and long-term effects
- Re-colonisation / recovery
- Predatory mites
- Litterbag studies
- Total entomofauna
- Inventories / identification
- Bio-indicators
- Capture-mark-recapture
- Spray application, seed treatment or soil incorporation



Residues in arthropods

- Foliage dwelling arthropods
- Ground dwelling arthropods
- Other organisms (molluscs etc.)
- Pitfall trapping, beat sampling, sweeping, chemical knockdown
- Taxa identification



Lab and field testing on soil organisms

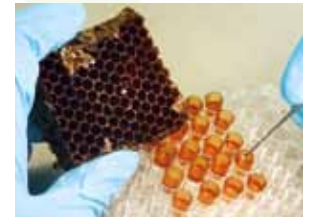
- Earthworms
- Collembola
- Predatory mites
- Enchytreids
- Mortality and sublethal effects
- Re-colonisation / recovery
- Taxa identification
- Soil microflora, respiration and nitrogen transformation tests



SynTech Research is an independent global development and registration company specializing in agrochemical, bio-pesticide, biocide and seed products

Honeybee and other pollinator lab testing

- Adult oral and contact tests
- Adult chronic test
- Larval acute and chronic feeding tests
- Aged residue test
- Residues in larvae, pupae and adults
- *Apis mellifera* ssp
- *Bombus* sp
- *Osmia* sp
- *Megachile* sp



Honeybee and other pollinator semi-field testing

- Cage or tunnel testing
- Foliage application or seed treatment
- Aged residue and re-entry period
- Brood studies
- Residues in bees and bee products
- Pollen load and stomach preparation, nectar extraction
- *Apis*, *Bombus*, wild bees



Honeybee and other pollinator field testing

- Spray application and seed treatment
- Residues in bees and bee products
- Honey stomach and pollen load extraction
- Guttation studies
- Seed treatment dust
- Brood studies
- Monitoring in orchards, vegetables, seed crops
- *Apis*, *Bombus*, pollinators



Non-target plant testing

- Seedling emergence
- Vegetative vigour and growth
- Dry or fresh weight
- Shoot height
- Phytotoxicity effects
- 6 or 10 species
- Monocots and dicots
- Spray application, soil incorporation or drip irrigation



Aquatic toxicology

- Fresh and saltwater fish
- Aquatic crustaceans
- Algae and cyanobacteria
- Sediment water insects and oligochaetes
- Aquatic plants
- Acute and prolonged toxicity tests
- Static, semi-static or flow-through exposure
- Respiration inhibition test





Services are available in Europe,
the Americas and other territories

For further information visit
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Research

Expert services delivering
competitive advantage