

Terrestrial Ecotoxicology Laboratory

Welcome To Eurofins Agrosience Services

Eurofins Agrosience Services offers a wide range of standardized Tier I laboratory studies as well as more complex higher tier studies under extended laboratory, semi-field and field conditions with standard or special designs. All studies are planned and performed by an experienced team of scientists and technical personnel in accordance with the current guidelines (OECD, ISO, IOBC, EPA) and guidance documents.

Honey Bees and Bumble Bees

The toxic effects of plant protection products (PPPs) on bees and bee larvae (*Apis mellifera*, *Bombus terrestris*) are examined in acute and chronic studies following current OECD and EPA guidelines. The studies can be conducted throughout the whole year (April to September in Germany and the US, October to March in Spain). We also offer non-GLP screening tests. For the development of the 22 day honey bee larvae test, we have a leading role in the ring test group for the chronic feeding test with adult honey bees.

Non-Target Arthropods On Plants

We perform basic and extended testing on parasitoids (*Aphidius rhopalosiphii*, *Trichogramma cacoeciae*), predatory mites (*Typhlodromus pyri*), aphidophagous predators (*Chrysoperla carnea*, *Coccinella septempunctata*) and anthocorid bugs (*Orius laevigatus*). Test designs can be adapted to your specific requirements depending on the product or application technique. Extended studies are either based on the classical laboratory or the aged residues design. In aged residue studies, the persistence of an agrochemical in the specimens is assessed. All tests are performed following the IOBC/WPRS guidelines.



Non-Target Soil Organisms

As standard, we conduct the soil microflora test throughout the year using natural soil. This test includes the short-term respiration and the nitrogen transformation tests. Furthermore, Eurofins Agroscience Services has more than 15 years experience in laboratory testing of ecotoxicological effects on earthworms, springtails and predatory mites. Our stock cultures of *Eisenia fetida*, *Folsomia candida* and *Hypoaspis aculeifer* provide test organisms needed to perform acute toxicity studies, reproduction toxicity studies and bioaccumulation studies all the year round. Additionally, we offer studies, and / or screening tests with other soil inhabiting arthropod species like carabid beetles (*Poecilus cupreus*, adults and larvae), staphylinid beetles (*Aleochara bilineata*) and lycosid spiders (*Pardosa sp.*). Tests follow the most recent OECD, ISO and IOBC guidelines.

Non-Target Dung Organisms

We offer studies for testing chemicals for veterinary use with the face fly *Musca autumnalis* and the dung beetles *Aphodius constans* and *Onthophagus taurus*. We are also involved in the development of the test guideline with the ring test group for dung beetles (*Onthophagus taurus*).

Portfolio of Capabilities

- Ability to develop and adapt test designs
- Studies with aged residues are designed to assess PPP persistence under outdoor climatic conditions. Leaves for exposure are taken from field crops or from potted plants sprayed outside, simulating a field application.
- Testing of coated seed or metabolites in laboratory and higher tier studies with soil inhabiting arthropods
- Adapted Tier I test design for non-GLP screening-tests with *Eisenia fetida*, *Folsomia candida*, *Hypoaspis aculeifer*, *Typhlodromus pyri*, *Aphidius rhopalosiphii*, *Apis mellifera* and *Bombus terrestris*
- Bee larval test
- Chronic feeding tests with *Apis mellifera*
- Acute oral and contact toxicity tests with *Apis mellifera* in laboratory in autumn and winter in Spain

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The Agroscience Group offers unparalleled expertise to the crop protection industry; with over 750 staff globally and more than 80 fully owned facilities across 25 countries, we are committed to developing and growing in order to meet the needs of the Agroscience industry.

Eurofins Agroscience Services Group

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