Welcome to Eurofins Agroscience Services

We are a leading provider of product development consultancy and technical support to the crop protection industry. Our technical activities involve conducting field and laboratory studies to determine the safety and efficacy of new agrochemicals and crop varieties. With over 25 years of experience, Eurofins Agroscience Services offers outstanding technical knowledge and project management skills. By acquiring a carefully selected range of CRO’s, we have created a unique portfolio of expertise that provides analytical, regulatory and field support to plant breeders, agrochemical, biopesticide, biocide and fine chemical manufacturers.

Residue tests can provide information to evaluate possible risks to foraging bees from residual traces of plant protection products remaining on crops. Bees can be exposed to potential residues via soil and plant matrices (vegetative plant material, flowers, guttation liquid, dust, pollen and nectar in flowers), or via degraded or processed residues in hive matrices (wax, pollen (bee bread), nectar / honey, royal jelly).

Possible pesticide transfer by a foliar application or from a seed treated crop can be evaluated by collecting samples of honey, pollen or wax for example from bee colonies. Additionally, residues in nectar and pollen of single worker bees can be determined by collection of the forager bees directly in front of the hives or from the flowering crop. The collection of samples can be carried out accompanying the evaluation of biological parameters as mortality, flight activity and brood development. For the side effect assessment of potential residues of seed coatings in plant exudates or dust precipitation, the design of the honey bee studies can be adapted accordingly.

Honey bee studies can also be set up as pure residue studies with bees (hive matrices, sampling of single worker bees, preparation of pollen and/or honey stomach) or without bees (sampling of plant material or food sources as nectar, pollen and guttation water from the crop).

In recent years, Eurofins Agroscience Services has gained experience by conducting these studies in many countries including Denmark, France, Spain, Italy, Greece and USA.

Our residue laboratories have years of experience with these matrices, so any analysis conducted by our in-house scientific team will shorten study time needed due to close cooperation of analytical and field units.

Our experience covers the following:
- Sampling of forager bees in front of the hives and in the field
- Preparation of pollen loads and nectar stomachs from the collected forager bees
- Sampling of bee products from within the hive: nectar / honey, pollen, wax and royal jelly
- Sampling of plants and flowers
- Sampling of pollen from flowers
- Sampling of nectar (e.g. via capillary forces) from flowers
- Sampling of pollen from pollen traps (residue analysis, pollen source identification)
- Additionally: soil sampling for residue analysis
- Sampling of honey and bees from the hive and analysis of bee diseases in specialized laboratories
- Sampling of guttation droplets
- Sampling of dust precipitation

Eurofins Scientific Group

Eurofins Scientific is a life sciences company that serves a wide range of industries including the pharmaceutical, agricultural, food and environmental sectors.

Today the Eurofins Group is a leading provider of analytical services with:
- An international network of 150 laboratories across 30 countries in Europe, the USA, Asia and South America
- About 9,500 staff
- A portfolio of over 40,000 reliable analytical methods
- More than 80 million assays per year to establish the safety, composition, authenticity, origin, traceability, identity and purity of biological substances