



## Welcome to Eurofins Agrosience 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 Agrosience 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.

We are experts in providing product development consulting and technical support to the professional pest control, turf and ornamental, public health and animal health pest control products and biocide industry.

### Our Credentials

- Standard protocols for all types of studies
- Field notebooks and SOPs facilitate a consistent approach to managing external programs
- In-house quality assurance group performs all aspects of GLP training and audits
- Bio-efficacy and regulatory dossier development for product registrations worldwide
- Highly trained field investigators with broad experience and expertise
- In-house field and laboratory studies conducted against a wide range of public health, animal health and plant health pests
- Lab, field and semi-field studies can be carried out at in-house field research facilities in:

- USA
- Germany
- Thailand

- Global study management and product development capability, partnering with research organizations around the world in the USA, South America, Europe, China, Southeast Asia, Australia and South Africa.

### Our Support

- Professional pest control products
- Public health products
- Vector control products
- Animal health products
- Home and garden products
- Turf and ornamental products

### Our Commitment To You

- Superb Quality – studies will be developed, scoped and fulfilled according to clients' requirements
- Timely Communication – our clients should never have to be concerned how and when the study will be done
- Accurate Delivery – data and reports are prepared and submitted according to your project timeline
- Responsible Service – no data will be published or discussed without approval from a sponsor

With a limited number of CRO's specializing in the Environmental Science sector that are able to offer a diverse service portfolio and geographical coverage around the world, regulatory pressure on formulators and registrants has increased. There are more demands than ever in dossier development and shortening product development timelines.

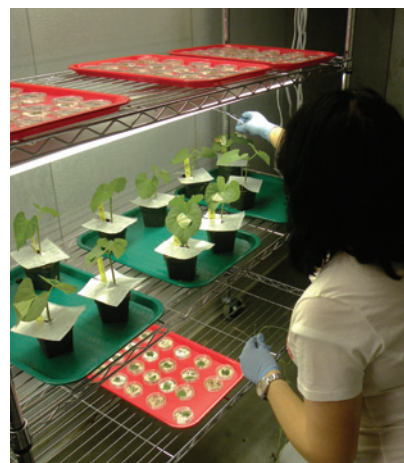
If we may assist you with any of your product development needs, please do not hesitate to contact us.



Boldfaced hornet study



Red imported fire ant field study



Translational study against common ornamentals pests

### Public and Animal Health Pests

The “Public health significance of urban pests,” released by WHO has become the internationally recognized standard on the relationship between good pest management, hygiene and health worldwide.

With rising standards in terms of quality of life and hygiene, the world will continue to need new and innovative products in order to protect public health and habitat and to meet mounting expectations

The common public and animal health pests testing include:

- GLP lab and field efficacy studies
- Laboratory formulation screening with direct spray and/or residual efficacy bioassay
- Semi-field residual efficacy
- Arena testing for baits, attractants, repellents and monitors
- Field efficacy testing against outdoor flying and crawling insects

### Home, Garden, Turf & Ornamental Pests

Consumer and turf & ornamental business account for more than half of the total non-crop business. With field research facilities all around globe, Eurofins offers services in these areas:

- Termiticide dissipation and persistency study
- Field to lab or greenhouse to lab translational study
- Field formulation screening against diseases, weeds and insects on wide variety of turf and ornamental species
- Field efficacy testing against outdoor flying and crawling insects
- Phytotoxicity
- Non-target exposure study

### Focus: Bed Bug Studies

Over recent years, bed bug outbreaks have increased significantly across the globe, largely due to the boom in travel and tourism of the past few decades.

As concern over a global bed bug pandemic continues to escalate, the pest control industry has been faced with the challenge of searching for effective chemicals and methods to control these outbreaks.

Research in this arena requires a large quantity of insects and the industry wants to bring new products to the market in a very short time period.

Eurofins Agrosience Services offers a wide range of bed bug services, including research and sales.

To address the issue of insect numbers, Eurofins Agrosience Services cultures bed bugs in house for both research purposes and sales (currently, sales are limited to the US market). Due to their requirement for regular blood meals throughout the development process and the “hitch hiker” behavior of bed bugs, there are limited research laboratories which offer bed bug cultures.

Research includes product efficacy development with direct spray and residual applications on common surfaces, such as unpainted wood and upholstery fabric. Bed bugs used in the research include susceptible Harlan strain and different levels of pyrethroid-resistant field strains.



Ground ULV application study against mosquitoes



Residual efficacy testing on different substrates



Fly control product screening in the laboratory or at animal facilities

**We have worked with many insects including the following:**

- Multicolored Asian Lady Beetle (*H. axyridis*)
- Beet Armyworm (*S. exigua*)\*
- Green Peach Aphid (*M. persicae*)\*
- Soybean Aphid (*A. glycines*)
- Two-Spotted Spider Mite (*T. urticae*)\*
- German (*B. germanica*)\*
- American (*P. Americana*)
- Oriental (*B. orientalis*)
- Brown-Banded (*S. longipalpa*)
- Pharaoh Ants (*M. pharaonis*)
- Red Imported Fire Ants (*S. invicta*)
- Harvester Ants (*Pogonomyrmex sp.*)
- Carpenter Ants (*Camponotus sp.*)\*
- Odorous House Ants (*T. sessile*)
- Acrobat Ants (*Crematogaster sp.*)
- False Honeypot Ants (*Prenolepis sp.*)
- Bigheaded Ants (*Pheidole sp.*)
- Argentine Ants (*L. humile*)\*
- Bed Bugs (*C. lectularius*)\*
- Lone Star Tick (*A. americanum*)
- Deer Tick (*I. scapularis*)
- American Dog Tick (*D. variabilis*)
- Brown Dog Tick (*R. sanguineus*)
- Yellow Fever Mosquito (*A. aegypti*)
- Anopheles Mosquito (*A. quadrimaculatus*)
- Southern House Mosquito (*C. quinquefasciatus*)
- House Fly (*M. domestica*)\*
- Blow Fly (*C. vomitoria*)
- Black Fly (*S. vittatum*)
- Stable Fly (*S. calcitrans*)
- Cluster Fly (*Pollenia sp.*)
- Confused Flour Beetle (*T. confusum*)
- Sawtooth Grain Beetle (*O. surinamensis*)
- Cigarette Beetle (*L. serricornis*)
- Drugstore Beetle (*S. paniceum*)
- Mealworms (*Tenebrio sp.*)
- Spider Beetle (*Ptinus sp.*)
- Larder Beetle (*D. lardarius*)
- Black Carpet Beetle (*A. megatoma*)
- Varied Carpet Beetle (*A. verbasci*)
- Warehouse Beetle (*T. variabile*)
- Clothes Moth (*T. bisselliella*)
- Honey Bees (*A. mellifera*)\*
- Wasps (*Polistes sp.*)
- Hornets (*D. maculata*)
- Cat Flea (*C. felis*)\*
- House Cricket (*A. domestica*)
- Black Widow Spider (*L. mactans*)\*
- Brown Recluse Spider (*L. reclusa*)\*
- Desert Recluse Spider (*L. deserta*)\*
- Carolina Wolf Spider (*H. carolinensis*)

\*Have worked with these species extensively

**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 8,000 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



Termiticide screening with different soil types around the globe



Colonies of susceptible and pyrethroid-resistant bed bugs are available for new product testing



The black widow spider is one of the common public health pests tested in the laboratory