

Bio-pesticides & Biological control

Background to a dynamic market sector

A diverse range of inputs fall into this product category including; Micro-organisms (fungi, bacteria, virus), Macro-organisms (nematodes, insects), Semiochemicals (pheromones), Botanicals (plant extracts), minerals and PIPs (Plant-Incorporated Protectants).

The global biopesticide market is growing rapidly as it can contribute towards making agriculture more sustainable and resilient. Its benefits include resistance management, residue management, enhanced yield and crop quality, labour management, and good compatibility with traditional pesticides in Integrated Pest Management (IPM) programs.

Public policies and regulations are being established to promote their use. In the US, biopesticides are registered through the Biopesticides and Pollution Prevention Division (BPPD) branch at the US Environmental Protection Agency (EPA). The registration requirements are different from those of conventional chemical pesticides. In general, all biopesticides are considered non-toxic and hence, have a Tolerance Exemption.

In Europe many biopesticides fall under Regulation 1107/2009, and some countries offer a faster track; for example UK and France have their own Biopesticides Scheme. There is also the Sustainable Use Directive 2009/128/EC which promotes the use of Integrated Pest Management and other alternative approaches often based on biopesticides.

As the pesticide industry is responding to this growing demand by bringing new biopesticide products to the market, Eurofins Agrosience Services is ready to help you with the data requirements as well as the field efficacy studies needed to define product use instructions and label recommendations.

We can offer these studies on a huge range of product types and crops, globally



Product Development EAS recognized know-how

In recent years, EAS Group has conducted a range of laboratory and field studies with bio-pesticides. Solid scientific expertise and a degree of flexibility are required to design bio-pesticide studies. We have developed specific knowledge and methodology to evaluate those products.

We conduct a wide range of tests, from early stage screening through to field demonstration platforms. A wide range of expertise is available through our extensive network of field teams, operating in fully equipped field and laboratory facilities.

Some examples: biological pest control in indoor tomato in Italy; pheromone use in orchards and vineyards in southern France, cyst nematode control in UK potato fields, micro-organism against foliar cereal diseases in major cropping regions from west to eastern Europe.

An integrated service

Eurofins Agrosience Services offers the largest managed, 'in house' contract research capacity in the world. With unmatched global reach, we are confident that we can offer our clients a full range of services in key growing regions across the globe. We continue to add to our vast network, growing our capacity and capabilities across Europe, NAFTA, Central and South America, Asia and Australia.

EAS Group actively takes part in the development and testing of innovative tools for agriculture. We constantly adapt and train our teams to new technical and regulatory requirements. Our experts provide advice and regular information from study set-up until completion.

Your studies are coordinated through our local or international Study Management teams. We deliver reliable data analysis and comprehensive study reports in accordance with your requirements. Our databases and customer extranets are designed for efficient communication and real-time access to study data.

In summary, our biopesticide expertise consists of:

- Laboratory and greenhouse efficacy screening for early stage candidates
- Regulatory efficacy studies for local, international and global submissions
- Field demonstration platforms for marketing purpose
- Effects on quality and taints on harvested produces
- Regulatory toxicology studies
- Regulatory ecotoxicology studies
- Product chemistry studies
- Regulatory advice, dossier preparation and follow up
- Data gap analysis and waiving strategies

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