



## ENDOCRINE DISRUPTOR SERVICES

Helping you fulfil the requirements of the EDSP Tier 1 Screening Order (EPA) and anticipated EU needs for pesticides

**'We've got it covered'**

## EUROFINS ENDOCRINE DISRUPTOR 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 and Eurofins Product Safety Laboratories offers outstanding technical knowledge and project management skills. The Group has created a unique portfolio of expertise that provides analytical, regulatory and field support to plant breeders, agrochemical, biopesticide, biocide and fine chemical manufacturers.

### THE ENDOCRINE DISRUPTOR ISSUE

Following the EPA announcement regarding the official initiation of Tier 1 testing for the first group of 67 pesticide compounds, Eurofins can partner with you to help fulfil the necessary data submission requirements.

The effects of certain compounds which inhibit the actions of naturally occurring hormones have become a central point of focus for the scientific community and an area of concern for the wider public. These compounds, 'Endocrine Disruptors' and the study of their effects have become an EPA priority.

Globally, endocrine disruptors are an area of concern being tackled by authorities all over the world - discussions are taking place to establish the policies that will regulate the future of ED testing.

In response to this Eurofins Agrosience Services and Eurofins Product Safety Laboratories (NJ) has prioritised Endocrine Disruptor Screening and can offer the full battery of Tier 1 assays as described by the EPA.

### OUR EXPERTISE

Our collaboration of established Eurofins companies brings you the highest level of quality testing from our own, in house pool of expertise.

#### Eurofins Agrosience Services (EAS Group)

- With the capacity and expertise to deliver a full range of national and international regulatory research services, Eurofins Agrosience Services provides customers with flexible, professionally-managed scientific solutions.

#### Eurofins PSL (EPSL)

- Has provided research and testing services since 1974. EPSL offers a broad range of services including toxicology, analytical and bioanalytical chemistry and pharmacology.

### SERVICE PORTFOLIO

We can offer the full Tier 1 battery of services:

#### *In vitro*

- Estrogen receptor (ER) binding – rat uterine cytosol
- Estrogen receptor - (hER $\alpha$ ) transcriptional activation - Human cell line (HeLa-9903)
- Androgen receptor (AR) binding – rat prostate cytosol
- Steroidogenesis – Human cell line (H295R)
- Aromatase – Human recombinant microsomes

#### *In vivo*

- Uterotrophic (rat)
- Hershberger (rat)
- Pubertal female (rat)
- Pubertal male (rat)
- Amphibian metamorphosis (frog)
- Fish short-term reproduction

Eurofins is also poised to support Tier 2 testing to confirm and characterize the endocrine effects.

### EUROFINS SCIENTIFIC GROUP

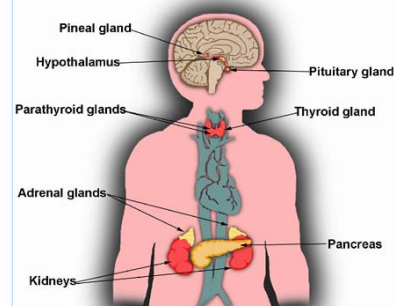
In addition to the services listed above, both the EAS Group and EPSL work closely with other companies in the Eurofins Scientific Group that offer augmented services.

Eurofins Scientific is a global leader in bio-analysis in the pharmaceutical, agrochemical, food and environment sectors for research, development, quality, safety and compliance testing:

- Approx. US\$900m annual revenues
- 150 laboratories
- 8000 employees
- 29 countries

The Eurofins Group offers comprehensive services and unmatched expertise.

The Endocrine System



An endocrine disruptor is a synthetic chemical that, when absorbed into the body, mimics or blocks hormones and disrupts the body's normal functions



Endocrine disruptors can cause adverse health effects in an intact organism, or its progeny, or its (sub) populations.' EU Commission 2007



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