

One-stop service - world-class, worldwide

# Specific Categories of Biologicals

Dedicated testing capabilities to address special needs

## Microbials

### Human Safety

- Antimicrobial resistance (SANTE/2020/12260)

### Environmental Safety

- Aquatic toxicity OPPTS 885.4240, OPPTS 885.4200 water flea and fish
- Terrestrial ecotoxicology OPPTS 885.4340
- NTO, OPPTS 885.4380 Honey Bee Method development SANCO/3030/99 and OPPTS 830.1800
- Method development SANCO 830-1800
- Method validation SANCO/3030/99, SANTE/2020/12830

### Product Chemistry

- 5-Batch OPPTS 885.1400
- Storage Stability (2-year or accelerated)
- CoA preparation OPPTS 885.1400
- Microbial Contaminant Limits for MPCA in phys.- chem. studies

## Natural Substances

- Technical adaptation of study protocols to challenging substance properties (e.g. low water solubility, high volatility)
- Laboratory and field testing of botanical insecticide, fungicide and herbicide active substances and products

## Semiochemicals

- Efficacy studies according to EPPO PP1/264, 314, 323 and CEB MG09
- Large plot trial design (1ha or more) for mating disruption trials
- Connected pheromone traps to monitor flights in field conditions



30+

Years of  
Testing

100

Sites in 25 countries  
worldwide



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## Seed Treatment

### Relevant Tests

- Product stability
- Microbial survival rate
- On seed stability and compatibility
- Seed germination rate
- Chemical loading
- Dust reference values (Heubach)
- Dust drift field studies

### Specific Technical Capabilities

- Seed treatment, coating, priming and dispatch to field sites
- Inoculum production and artificial contamination to control initial pest pressure
- Seed pathogen detection
- Soil preparation, sowing and harvest equipment
- Aerial drone survey for field trials (counts, ground cover, plot heterogeneities)

## Sprayable Formulation

- Self-propelled motorized sprayers for application in perennial crops (grapevine, orchards, hop)
- Leaf Wall Area calculation for vertical crops
- Rainfall simulation tower for rainfastness / leaching properties
- Tank-mix compatibility testing
- Drone spraying experiments

## Soil Application

- Soil fumigation
- Drip application
- Granular in furrow application
- Soil steam sterilization and inoculation
- Indoor and open field conditions
- Soil microbiome NGS analysis
- Root architecture, rhizotron and image analysis

## Postharvest Treatment

- Storage chambers with regular air or controlled atmosphere (1m<sup>3</sup> to >100m<sup>3</sup>)
- Adaptation of sponsor application system to smaller R&D volumes
- Disorder and disease identification, artificial inoculation
- Fruit quality equipment with integrated data management (firmness, sugar, colour, acidity...)
- Food processing and sensory test laboratory



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