

YOUR PRODUCT... OUR KNOW-HOW



Biotecnologie BT delivers a **complete** and competitive range of **integrated studies** to support the product **registration** and active substance approval/renewal of **agrochemicals**, **biopesticides, biostimulants and biocides.**

- European Contract Research Organization (CRO)
- GLP and GEP certified
- 2 Test facilities
- Cutting edge equipment
- State-of-the-art laboratories
- Greenhouses
- In house insectarium

All of our tests are performed in compliance with International accepted Guidelines

Biotecnologie BT, thanks to its consolidated know-how and highly qualified staff is here to support you in providing the essential data for the creation of a complete dossier, solving any challenges along the way.



Our test facilities: A wide range of services

GLP, GEP certified GLP, GEP certified Set up and GLP Validation of Chemical Analytical Methods 5-Batch analysis Environmental Fate test Agrochemical Residue studies Efficacy and residues studies Agrochemical Residues studies Efficacy and residue Field trials Including biopesticides and biostimulants



GLP certified Ecotox tests Phys-Chem characterizations Storage stability studies Studies on microbial biopesticides and biostimulants (bacteria, fungi, yeasts and viruses) Laboratory-scale and greenhouse screening

Frazione di Pantalla di Todi 06059 Perugia - Italy Phone: +39 075 8950045 info@biotecnologiebt.it



OUR INTEGRATED APPROACH TO BOOST THE POTENTIAL OF BIO-CONTROL AGENTS

DEDICATED TASKFORCE OF SPECIALISTS IN MICROBIOLOGY

✓ STUDIES ON ACTIVE SUBSTANCE:

- Determination of the Minimal Inhibitory Concentration (MIC)
- · Growth morphological characteristics and viability at different temperatures
- Fate and behaviour in soil and water
- In vitro efficacy laboratory-scale screening for early stage

STUDIES ON TECHNICAL AND FORMULATED PRODUCTS

- Set-Up and Analytical method validation for determination of active substance and metabolites
- 5- batch analysis (determination of active ingredient contaminants and metabolites)
- Physical-Chemical characterization
- Storage stability studies
- Analytical Ecotox

Frazione di Pantalla di Todi 06059 Perugia - Italy Phone: +39 075 8950045 info@biotecnologiebt.it

OUR EXPERTISE IN DEVELOPING BESPOKE ANALYTICAL METHODS TO SATISFY YOUR SPECIFIC UNRESOLVED NEEDS



BioTecnologie BT

YOUR PRODUCT .. OUR KNOW-HOW

A COMPLETE SET OF TOOLS AND A DEDICATED TEAM OF STUDY DIRECTORS TO BUILD UP A DETAILED PROFILE OF YOUR TECHNICAL AND FORMULATED PRODUCTS

- Phys-Chem characterizations
- GLP Certificates of Analysis (COA)
- Determination of impurity profiles
- Accelerated & Long-term Storage Stability studies
- A dedicated team of specialists in analytical chemistry
- Analytical Methods set-up and validation to determine active ingredients, metabolites and degradation products in matrices from residue, environmental and ecotox test
- Residue analysis of fresh and processed plant & animal derived products
- Residue quantification in environmental matrices
 Environmental Fate Studies



BioTecnologie BT

YOUR PRODUCT .. OUR KNOW-HOW

OUR SPECIALITY: EXPERIENCED TASK FORCE ON HEALTH STUDIES OF POLLINATORS

FROM CONSOLIDATED EXPERTISE IN CONDUCTING GLP STUDIES TO OUR COMMITMENT TO INNOVATE RESEARCH AND INTERNATIONAL RING TESTS

- Honeybees acute oral/contact toxicity test (OECD 213/214)
- Honeybees chronic adult 10 days oral toxicity test (OECD 245)
- Honeybees larval toxicity test, single/repeated exposure (GD239)
- Bumblebees, acute oral/contact toxicity test (OECD 247/246)

Frazione di Pantalla di Todi 06059 Perugia - Italy Phone: +39 075 8950045 info@biotecnologiebt.it



BioTecnologie BT

YOUR PRODUCT .. OUR KNOW-HOW

OUR COMMITMENT TO IN-DEPTH ASSESS ENVIRONMENTAL IMPACT

- End-to-end package of ecotox GLP tier-I and tier-I studies
- ✓ Non-target arthropods
- ✓ Pollinators
- Soil macro- and micro-organism
- ✓ Non-target plans
- Aquatic plants and Algae
- Aquatic invertebrates
- ✓ Activated sludge
- Environmental fate studies on soil, water and sediment
- Ready Biodegradability test
- Chemical analysis on samples from Ecotox tudies

FERTILIZERS AND BIOSTIMULANTS

MAIN ANALYSES CONDUCTED:

- Physical chemical characterization
- Determination of chemical and microbiological impurities
- Quantification of microbial active ingredient
- Determination of the complete chemical composition
- Determination and quantification of pathogenic and non-pathogenic microorganisms
- Biochemical characterization in a laboratory scale aimed to discover the specific activities of several microorganisms.
- Efficacy evaluation: In vitro screening, in vivo efficacy test

in climatic chamber and/or greenhouse, agronomic evaluation in open field

Our staff is involved in the **European Working Group CEN/TC 455/WG 3 "Pathogenic and non-pathogenic microorganisms"** and in the **European Working Group CEN/TC 455/WG 5 "Labelling and denominations"** projects in the frame of the European Commission Standardization Request M/564 to the European Committee for Standardization as regards the EU fertilizing products in support of Regulation (EU) 2019/1009 of the European Parliament and of the Council ; and actively participates as project leader in the drafting of the following guidelines:

DETERMINATION OF SHIGELLA SPP.
 PREPARATION OF SAMPLE FOR MICROBIAL ANALYSIS
 DETERMINATION OF ESCHERICHIA COLI
 DETERMINATION OF YEAST AND MOULD



BioTecnologie BT



AGRONOMY UNIT

Agrochemical residue studies in fresh and processed matrices
 Efficacy and selectivity field studies in annual and perennial crops (Italy)
 Environmental fate studies

With our well-established expertise in efficacy studies and residue studies, performed in compliance to the Good Agronomic and Laboratory Practices, we are well-equipped to deliver high-quality services to our clients in the field of fertilizers and biostimulants.

www.biotecnologiebt.it