

**BIOSAFE**

Is your food enzyme or probiotic strain ready for authorization?

We assess the safety of your product and support you at all steps of the product approval.

## Helping you to develop safer products

**Biosafe** is a contract research organisation (CRO) specialised in the safety assessment of food enzymes, probiotics, feed additives and biopesticides.

The safety of these regulated products must be assessed before they are placed on the market. We help you at all steps in the process, whether early-stage research or seeking approval for an already developed product.

In addition to the analytical methods available in Biosafe laboratory, we have an extensive network of partners and collaborators in Finland and abroad. This guarantees customer-friendly and effective planning and performing of the studies required.

**Use our expertise to**  
Reduce time to market  
Cut costs  
Manage risks

## Our services

FOOD ENZYMES / PROBIOTICS / FEED ADDITIVES  
PLANT PROTECTION PRODUCTS (BIOPESTICIDES)

### Biosafe laboratory services for different product types

|  |  | Viable Microorganisms | Fermentation Products |
|--|--|-----------------------|-----------------------|
| Taxonomic identification   | WGS (Whole genome sequencing) + bioinformatic analysis               | ●                     | ●                     |
|  | 16S rRNA sequencing  | ●                     | ●                     |
| Antimicrobial resistance genes from WGS                          |  | ●                     | ●                     |
| Antimicrobial susceptibility (MIC test)                          |  | ●                     | ●                     |
| Antimicrobial production   |  | ●                     | ●                     |
| Description of genetic modification                              |  | ●                     | ●                     |
| Toxicity and pathogenicity                                       | WGS analysis, toxins and virulence factors                           | ●                     | ●                     |
|  | Bacillus cytotoxicity: lactate dehydrogenase release from Vero cells | ●                     | ●                     |
| Absence of the production strain from the product                |  |                       | ●                     |
| Presence of DNA in the product                                   |  |                       | ●                     |
| Impact on gut microbiota (sequencing and bioinformatic analysis) |  | ●                     | ●                     |
| Allergenicity (protein sequence analysis + literature)           |  |                       | ●                     |
| Genetic stability (RAPD, PFGE)                                   |  | ●                     |                       |

### Biosafe consulting services

Helpdesk for customers

Literature reviews, consultations and statements

Scientific analysis/review of data submitted by the customer

Presentation of findings in the form required by the authorities

For the other types of services we provide, please visit our webpage:  
[www.biosafe.fi/en](http://www.biosafe.fi/en)

# Ready to begin?

### Contact us now

#### Key Account Manager

Jouni Heikkinen  
+358 40 016 5829  
jouni.heikkinen@biosafe.fi

#### Business Director

Pauliina Halimaa  
+358 40 640 3225  
pauliina.halimaa@biosafe.fi

Read more

[www.biosafe.fi/en](http://www.biosafe.fi/en)