

# Our services

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

## Biosafe laboratory services for different product types

		Viable Microorgan-isms	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	●	●
	Cytotoxicity: ISO 10993-5; qualitative and quantitative cytotoxicity , Bacillus cytotoxicity using Vero cells	●	●
Absence of the production strain from the product			●
Presence of DNA in the product			●
Compatibility with other authorised additives, in vitro		●	●
Impact on gut microbiota (sequencing and bioinformatic analysis)		●	●
Allergenicity (protein sequence analysis + literature)			●
Genetic stability (RAPD, PFGE)		●	

## Biosafe consulting services

Literature reviews, consultations and statements

Data interpretation

Analyses of results and conclusions on customer data

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)