

BACDUAL



Technical Data Sheet

Updated 17/4/2025

Biofertilizer/Biostimulant formulated with rhizobacteria *Lactiplantibacillus plantarum* and *Bacillus subtilis*, generating a great synergistic effect on plant growth (PGPR)

- Liquid product
- Allowed in Organic Agriculture
- Suitable for all kind of crops
- Root and Foliar application

DESCRIPTION OF PRODUCT

Biofertilizer produced from pure cultures of two rhizobacteria: *Bacillus subtilis* and *Lactiplantibacillus plantarum*.

The combination of these two plant growth-promoting rhizobacteria (PGPR) offers a complementary action that significantly enhances crop development and resilience.

While *L. plantarum* improves nutrient availability and modulates the soil microbiome through organic acids and phytohormones, *B. subtilis* provides a natural action that generates a suppressive soil, thus creating and ensuring a favorable environment for the development of the root system and proper crop nutrition.

BENEFITS

The use of BACDUAL in crops generates a biostimulant effect on plants thanks to the synergistic action between strains, acting as a plant growth promoter.

The direct benefits of using this product are:

- Increased diversity of soil microbial flora favorable to the crop.
- Increased efficiency in nutrient uptake.
- Greater plant growth and vigor, both root and leaf.
- Increased tolerance to adverse abiotic conditions.

COMPATIBILITY AND STORAGE

Do not exceed the recommended doses. Do not use with bactericidal or biocidal products. Do not mix two or more products without diluting them completely and separately. Store in its original, unopened packaging and at moderate temperatures in a cool, dry place.

WARRANTIES

BACDUAL is marketed in Spain based on Mutual Recognition (EU Regulation 2019/515), as established in the Third Additional Provision of RD 506/2013. The product is legally authorized in Austria under national legislation 9 DMG 2021, Reference number: BAES-DMT-2024-668-06

COMPOSITION

Bacillus subtilis _____ 1x10⁸ UFC/ml
(Strain MLB3)

Lactiplantibacillus plantarum __ 1x10⁸ UFC/ml
(Strain MLB6)

Appearance: Dark brown liquid

Relative density (20°C): 1.01 g/ml

pH: 4.7 ± 0.5

Solubility: 100% soluble in water at the recommended doses.

The product may separate into two phases; however, this does not affect its effectiveness. Shake before use.

Packaging 5 L

DOSAGE AND INSTRUCTIONS FOR USE

Product suitable for all types of crops.

FERTIRRIGATION APPLICATION

All kind of crops	Apply between 3 - 4 L/ha per application
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FOLIAR APPLICATION

All kind of crops	Apply between 3 - 5 ml/L and application
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Generally, apply 2 to 4 applications per crop cycle, every 5-15 days, depending on nutritional and physiological needs.

Application method: Always apply the product mixed with the irrigation water, always at the end of the irrigation period to avoid losses due to leaching. The product's effectiveness increases with the organic matter content of the soil.

Product suitable for use in organic farming according to regulation (UE) 2018/848 and 2021/1165.
Control ECOCERT SAS

