

PROTERRA

Microbial soil fertiliser with Bacillus, Pseudomonas and humic organic matrix

A concentrated microbial soil fertiliser combining *Bacillus amyloliquefaciens*, *Pseudomonas fluorescens* and an organic matrix of humic/fulvic extracts, hydrolysed protein and yeast extract.

Catalogue reference: page 86 | Rev.05 professional technical presentation

What the product is designed to do

- Supports root-zone colonisation and development of root hairs.
- Promotes phosphorus and iron availability and nutrient uptake.
- Contributes humic substances and amino-acid-rich organic components to the rhizosphere.
- Supports balanced root and shoot development at periods of high nutrient demand.
- Helps maintain biologically active soil and may support resilience against selected soil-borne stress factors.

Declared technical profile

Parameter	Specification
Microbial inoculum - minimum concentration	1×10^8 CFU/g
Bacillus amyloliquefaciens	Declared microbial component
Pseudomonas fluorescens	Declared microbial component
Humic and fulvic acid extract, hydrolysed protein and yeast extract	95% w/w

Physical form: Water-dispersible microbial powder

Batch-specific physical and analytical values are reported on the signed COA.

Recommended application programme

- Recommended for vegetables, cultivated flowers, ornamentals, fruit, citrus, grapes and tropical crops.
- Drip/root application: 2 kg/ha in 100-200 L water.
- Suggested timing: at transplanting; at fruit formation/flower fall; and approximately 30 days later, with one further repeat where needed.
- Prepare the solution shortly before use and apply to moist soil or follow with irrigation.

Correct mixing and application

Do not mix with chlorinated water, copper derivatives, bactericides or fungicides that may reduce microbial viability. Prepare at pH 5-7 where possible. Use clean equipment and avoid prolonged exposure of the mixed solution to heat or direct sunlight.

- Use clean, calibrated equipment and suitable water.
- Follow the legal label of every tank-mix partner.
- Complete a jar test and, where relevant, a small-area crop-safety test.
- Apply uniformly at the correct crop stage and environmental conditions.

Commercial and operational value

- Clear technical positioning for distributors, agronomists and professional growers.
- Compatible with programme-based selling rather than single-input selling.
- Technical documentation set includes TDS, SDS draft, COA template and original catalogue reference.
- Packaging: 1 kg pack.

Compliance and responsible use

- Use only in accordance with destination-market law and approved labels.
- Biological/pesticidal claims may require local registration before sale or use.
- Catalogue claims must be aligned with final product formulation and regulatory dossier.
- Final commercial release requires local-language label, responsible-person details and regulatory sign-off.

CEON - Agricultural Plant Nutrition, Soil Management and Specialty Solutions