



Root Protect

Rhizosphere biostimulant containing 100% biological and natural soil microorganisms.

Features and Benefits

Beneficial bacteria, fungi and other key ingredients for a better soil life, nutrient uptake and stress resistance.

“Healthy soil, healthy plant”

Root Protect is a dry, dispersible rhizosphere inoculant that contains the essential bacteria and fungi for healthy plant development. Specific strains are selected for their ability to make nutrients available, increase biomass, break down organic matter, fix atmospheric nitrogen and improve water uptake.

The microbes in Root Protect are live proprietary strains selected and packaged by Plant Health Cure to promote soil fertility and plant health. The microbes are added in the form of microbial spores, numbering in the millions per kg, and include beneficial rhizosphere bacteria, several species of *Bacillus*, the *Azobacter chroococcum*, as well as beneficial soil fungi of the genus *Trichoderma*. These microbes are formulated with soluble fulvic acid, yeast extract and seaweed extract to maximize product performance.

Root Protect:

- Promote a plant's recovery from stress
- Promote soil conditions that are favourable to root development
- Promote root development, water and nutrient uptake
- Improve root function without stimulating excessive top growth
- Keep nutrients soluble in acidic, neutral and alkaline media
- Rhizosphere health and root hormone release
- Applied routinely through the drip irrigation, promotes optimum substrate conditions
- Colonizes the root zone with beneficial microbial populations that fix nitrogen, solubilise phosphorus and break down soil organic material releasing nutrients

Composition

100% biological and natural soil bacteria. Rhizosphere inoculant

Guaranteed analysis	
Bacillus amyloliquefaciens	3.0 x 10 ² CFU/gram
Bacillus pumilus	3.0 x 10 ² CFU/gram
Bacillus subtilis	1.0 x 10 ² CFU/gram
Bacillus licheniformis	1.0 x 10 ² CFU/gram
Aoztobacter chroococcum	3.0 x 10 ² CFU/gram
Trichoderma atroviride	1.0 x 10 ² CFU/gram
Trichoderma harzianum	1.0 x 10 ² CFU/gram
Fulvic substance	19.1%
Humic substance	3.4%

CFU/gram = colony forming units per gram = international standard for the measurement of bacteria

Ingredients

Rhizobacteria and fungi	5.06%
Seaweed extract	16.50%
Fulvic dry	22.50%
Glucose	53.44%
Inert ingredients	2.50%

Dosage

Greenhouse soil cultivation	2 kg/ha
Greenhouse container cultivation	2 kg/ha
Tree nurseries	2 kg/ha

Method

Dissolve in 400 – 1000 litres of water per hectare. Apply through the irrigation system. Apply dissolved product within 4 – 6 hours. **Important note:** It is recommended that the feed system is flushed out with plain water within six hours of Root Protect application to prevent possible blockages by active fungal growth.

Compatibility

Root Protect contains naturally occurring live bacteria, and fungi in a dormant state. Root Protect can be tank mixed with soluble fertilisers and pesticides in dilution (do not mix with concentrate) if applied within 6 hours of tank mixing. Agitate for 2 - 3 minutes in spray tank prior to application.

Beware: fertilisers containing ammonia can reduce the amount of soil bacteria up to 60%.

General information

Packaging: 2 kg foil re-sealable pouch

Shelf life: 2 years
Technical service: For further information, assistance, and access to The Solufeed Advisory Service, please contact Solufeed at the address below.
Organic status: An organic biostimulant approved for organic farming. Like all organic materials the analysis may vary by as much as 15%.

Precautions

After mixing with water, use within 6 hours, do not store the liquid suspension.
To be kept in original container, re-sealed in a dry place.
Avoid prolonged exposure to direct sunlight and extremes of temperature.

Wear eye and skin protection when using microbial inoculants. Product not intended for ingestion. In case of ingestion, seek medical attention. Wash hands after handling. Wear protection against dust or mist exposure. Do not inhale dust or mist of product. In case of allergic reaction(s), treat symptoms and contact physician. Wash hands after handling. Keep out of reach of children.

Detailed health and safety information may be found on the relevant Material Safety Data Sheet (MSDS) available on request from the address below.

Important

The information in this document has been prepared carefully and is provided in good faith. The application, use and processing of any material together with regulatory compliance is the absolute responsibility of the Buyer. All technical information or other advice provided by the Seller in any form is given without warranty to the full extent provided by law.

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