

BACTIVATE 5

GRANULES

Bactivate 5 Granules are a unique microbial soil conditioner containing 5 species of bacillus bacteria on a carbon-rich substrate.

Bactivate 5 Granules can be applied to all horticultural and agricultural crops. They contain specific antagonistic strains of bacillus bacteria, each of which has a specific function in biology. When active, these functions can facilitate a reduction in the need for chemicals and chemical fertilisers, improve the crop's immune function, improve the soil structure, increase yields and all whilst improving overall crop quality.



Benefits of Bactivate 5 Granules include:

- improved nutrient uptake leading to a reduction in fertiliser requirement,
- solubilisation of soil bound phosphorous and potassium making it available for the crop/plant to use,
- conversion of atmospheric nitrogen into plant available forms,
- strengthened immune structure of the plant/ crop providing better pest and disease resistance,
- offsets damage and aids in the recovery from environmental factors such as drought, heat, frost and wind,
- regulation of soil pH at the root zone for optimal crop/plant performance,
- rapidly decomposes organic matter in the soil,
- naturally improves crop/plant growth rates,
- Sequesters heavy metals, pesticide and herbicide residuals in soil,
- Aids the crop/plant to suppress soil pathogen attack.

Bactivate 5 Granules contain a unique selection of bacillus bacteria in an 'antagonistic' form and contain bacillus thuringiensis, a naturally occurring bacteria that is toxic to some pests and nematodes. Bacteria are on a peat prill that adds organic matter to the soil. Bactivate 5 Granules have a long-shelf life of up to 3 years in the bag (covered, dry and out of direct sunlight) and can be broadcast through standard farm spreading equipment.

For best results, Bactivate 5 Granules should be used in conjunction with Bactivate BioBoost Enhance and Bactivate Seaweed which will feed the bacteria and further improve the soil structure.



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Product Analysis

Bactivate 5 Granules Biological Analysis:

Item:
Bacillus subtilis
Bacillus megaterium
Bacillus mucilaginosus
Bacillus licheniformis
Bacillus thuringiensis

Organisms in the Bactivate Product Range

Organism	Scientifically supported function ¹
Bacillus subtilis	Shown to alleviate stress generated by soil salinity; solubilising soil inorganic phosphate; and remove soil organic contamination. It is able to combat the impact of pathogens by releasing a number of natural enzymes and antibiotics.
Bacillus megaterium	Secrete organic acids that can mobilise insoluble nutrients like phosphorus. Active in soil matter breakdown and turnover.
Bacillus mucilaginosus	Nitrogen fixing and mineral dissolving soil bacteria. Application enriches the root space by mobilising nitrogen, phosphorus and potassium and also allows the reduction in mineral fertilisers.
Bacillus licheniformis	Nitrogen fixers. Solubilises Phosphorus
Bacillus thuringiensis	Combats the effects of pathogens and soil disease. Solubilises Phosphorus

1. Search data obtained from the Web of knowledge.

Application Rates

Spreaders & farming machinery - general	For all crops, plants, vines and trees. Do not mix with nitrogen fertilisers. For best results use in conjunction with Bactivate BioBoost Enhance	50kg/ha * 1-2 times per annum
Spreaders & farming machinery - heavy clay/sandy soil	To break down heavy clay soils & increase organic matter in sandy soils, use in conjunction with Bactivate BioBoost Enhance. Do not mix with nitrogen fertilisers.	75kg/ha * 2 times per annum
Spreaders & farming machinery - plant immune response to soil pathogens and pests	Use higher rates for lighter soils. Do not mix with nitrogen fertilisers	75 kg/ha * 2 times per annum
New plantings	Apply directly into the planting hole	5g - plants 15g - small trees 20g - large trees
Nursery application	Apply directly to pots and seedlings	750g/1m ³ of material

* Subject to soil test



For more information on Bactivate Program and our range of supplementary products, please contact: sales@bactivate.com or your preferred Bactivate Distributor.

www.bactivate.com.au

