

Bactivate

GRANULAR

ALL-IN-ONE MICROBIAL SOLUTION

Bactivate® Granules is an *all-in-one* microbial soil conditioner that brings together the power of 5 select, native beneficial soil bacteria, on a carbon prill ready to use.

A truly *multi-function* microbial, Bactivate® beneficial bacteria colonise the root zone to transform soil health and suppress the impacts of certain soil-borne diseases.

Bactivate® has the capability to perform several key functions:

- unlock phosphorous
- cycle potassium
- fix nitrogen
- improve soil structure and plant health
- suppresses salinity in the rhizosphere
- improve nutrient uptake and plant immune system.

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SELECT MICROBES
BETTER TOGETHER

With over 20 years of research and development and 10 years of field-proven success in Australia, Bactivate® is transforming soils across the country.

Bactivate® is a proprietary microbial technology with a unique blend of beneficial native soil bacteria.

Benefits

- Unlocks nutrients in the soil, reduced fertiliser application over time
- Builds longer root structure, improves soil moisture holding capacity
- Improves soil health, adds key beneficial bacteria to soil
- Improves the immune health of plant, less fungicide and pesticides over time
- Improves plant sustainability in low nutrient, low rainfall environments
- Suppresses impacts of soil borne disease such as phytophthora, pythium, fusarium, dollar and spring dead spot
- Suppresses the impacts of salinity around the rootzone
- Reduces chemical run-off into waterways, lakes and catchments.

Packaging

- 25kg bags (1 – 2mm carbon prill)
- Available in bulka bag (750kg).

Application Rates

- In consultation with your local Growise consultant. See overleaf for general guide.



Contact your local Growise Consultant

enquiries@growise.com.au

www.growise.com.au

General Application Guide

APPLICATION TYPE	BACTIVATE RATE
• NURSERY (MEDIA MIX)	• ~5kg /m ³ (mixed in with planting media)
• SEEDLING/TUBESTOCK	• 10g – 50g (in plant hole or rip line)
• SAPLINGS	• 50g – 100g (at /around base)
• MATURE TREES	• 150g – 300g
• MATURE TREE (SICK/DISEASED)	• 300g – 500g plus
• TURF (IMPROVE HEALTH/DISEASE/UNLOCK NUTRIENT)	• 250kg/Ha (min); 25kg / ~1,000sqm

Beneficial Bacteria in Bactivate

BACTIVATE BACTERIA	SCIENTIFICALLY SUPPORTED FUNCTION
BACILLUS SUBTILIS	<ul style="list-style-type: none"> ▪ antagonistic organism against plant pathogens ▪ decomposes animal and plant remains into available nitrogen in the soil ▪ processes atmospheric nitrogen into a form available for the plants to use.
BACILLUS MEGATHERIUM	<ul style="list-style-type: none"> ▪ highly efficient phosphate solubilising bacteria ▪ active in soil organic matter breakdown and turnover.
BACILLUS MUCILAGINOSUS	<ul style="list-style-type: none"> ▪ helps to decompose any potassium minerals and release potassium ▪ suppresses pathogenic cells ▪ helps improve uptake of nitrogen, phosphate and potassium in soil.
BACILLUS LICHENIFORMIS	<ul style="list-style-type: none"> ▪ decomposes protein and lignin to provide nutrition for plants in forms such as amino acids ▪ helps fix nitrogen and solubilise phosphate.
BACILLUS THURINGIENSIS	<ul style="list-style-type: none"> ▪ creates a crystalline structure ingested by many soil-borne pests like nematodes and fungus gnats which causes paralysis of the pests digestive tract causing starvation and eventual death ▪ decomposes organic nitrogen components in the soil and solubilises phosphate.

“Success starts at the root zone with the right type and right type and right number of beneficial soil bacteria.”