

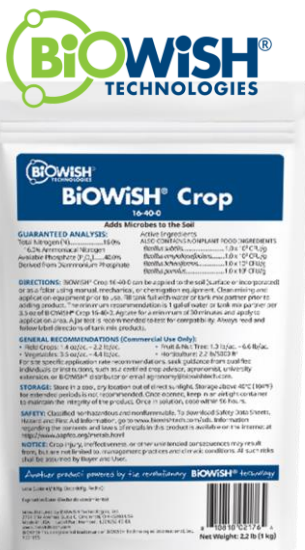


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BiOWiSH[®]



BiOWiSH is a unique biotechnology product which can be utilised as a stand-alone input, coated onto a wide range of Baileys' granulated fertilisers, or mixed with liquid nutrients to create an enhanced efficiency fertiliser.

BiOWiSH contains *Bacillus subtilis*, *Bacillus amyloliquefaciens*, *Bacillus licheniformis* and *Bacillus pumilus*. These beneficial microbes have several modes of action which improve plant performance.

APPLICATION RATES

Application	Rate/Ha
Turf	250-500g
Field Crops	100g-2.5kg
Fruit & Nut Tress	1.1-7.4kg
Vegetables	245g-5kg
Horticulture	500g

Contact your Territory Representative for specific rates.



MORE ROBUST & EFFECTIVE

BiOWiSH® microbes operate in a broad range of conditions, including sandy, low oxygen, low and high pH soils.



BOOSTS NATIVE SOIL MICROBIOME

By promoting higher populations of native bacteria in the soil, reducing disease and improving overall plant and soil health.



ENHANCES ROOT DEVELOPMENT

BiOWiSH® microbes improve plant vigour by increasing endophytic activity and root mass.



IMPROVES NUTRIENT AVAILABILITY

Converting nitrogen and bound phosphorous into the plant available form and produces a number of enzymes that break down complex organic molecules.



How does BiOWiSH Work?

BiOWiSH® endophytic Bacillus deliver soil nutrients to crops through the rhizophagy cycle, creating a symbiotic relationship between the plant and soil microbes.

BACILLUS SUBTILIS

- **Fixes nitrogen** converting atmospheric nitrogen into a form that can be used by plants.
- **Solubilises phosphorus** making phosphorus more available to plants and improving uptake.
- **Produces antimicrobial compounds** helping to protect plants from fungal diseases.

BACILLUS AMYLOLIQUEFACIENS

- **Promotes root growth** through the production of plant growth hormones like auxins that stimulates cell division and elongation and indole-3-acetic acid (IAA) that promotes root branching.

BACILLUS LICHENIFORMIS

- **Chelates iron**, making it more available to plants and detoxifies heavy metals.

BACILLUS PUMILUS

- **Solubilises phosphorus** making phosphorus more available to plants and improving uptake.
- **Produces antifungal compounds** helping to protect plants from fungal diseases.
- **Produces biosurfactants** which help improve the water retention capacity of the soil

HoloGene 3™ Technology Plant - Microbiome Shift

