

# BACTIVATE

## SEAWEED

Containing 18 types of protein amino acids, Bactivate Seaweed is an ideal organic liquid fertiliser for agriculture, turf, floriculture and horticulture

Bactivate Seaweed is used as part of the Bactivate Program as well as a stand-alone foliar spray.

It is now known that the effects of kelp products can be explained by the presence of groups of plant hormones, namely auxins, cytokinins, and gibberellins. Kelp products also contain natural bioactive substances such as vitamins, free amino acids, fulvic acids and alginates. Alginic acid also stimulates the activity of soil microbes. Bactivate Seaweed is produced from select seaweeds, using a unique technology that avoids the overuse of chemicals and heat, resulting in the retention of more bioactive substances, and making it a more environmentally friendly product.

Auxins stimulate branching root formation. The resultant increase in root tip growth leads to an increased level of cytokinins in the treated plants, as that group of hormones is primarily produced in root tips. The increased root volume and number of root tips also increase moisture and nutrient uptake. The improved nutrient status, together with the higher levels of natural, internally-produced cytokinins in the plant, gives stronger top growth, making the plant more resistant to stresses such as drought, water logging, nutrient deficiency or salinity, and the impact of some soil-borne diseases.

Many of the internal biological processes of plants are controlled by hormones. Two of the more important classes of these are auxins and cytokinins. They play a role in:

- root and stem cell elongation,
- promoting the formation of more lateral (branching) roots, and root hairs,
- enlarging the thickness and length of roots,
- increasing the uptake area and uptake activity of the roots,
- increasing the number of root tips,
- regulating plant immunity and cell growth,
- promoting leaf expansion, and the angle at which the leaves are held,
- inducing cell division and elongation,
- increasing nitrate reductase vitality, promoting nitrogen uptake,
- decelerating leaf senescence,
- affecting the emergence of lateral bud and flower development,
- the osmotic pressure in roots, thereby promoting greater water uptake and transport throughout the plant,
- promoting younger shoots to grow and become strong more quickly.



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## Product Analysis

Bactivate Seaweed contains 18 types of protein amino acids.

Item	Content
Alga Acid	20g/L
Amino Acid	3.0%
Fulvic Acid	15.0%
Total Microelement	6.5%
Organic Matter	17.5%
Sodium	2.25%
PH	6.6-6.9
Ca	535mg/L
Mg	225mg/L
Fe	370mg/L
Mn	14mg/L
Cu	1.5mg/L
Zn	230mg/L
B	130mg/L
S	580g/L

## Application Rates

Foliar sprays	For actively growing plants, vines and trees to increase plant stress tolerance and improve photosynthesis	2.5L/ha
Boom sprayers & under-tree sprinklers	For all types of spray equipment, use the area normally covered by one tankful to determine how much product to add	2.5L/ha
Drip or micro-irrigation systems	Use higher rates for lighter soils	2.5L/ha
Overhead sprinklers: Travelling or Pivot irrigators	The amount of concentrate needed per hectare of irrigated area for 10mm irrigation is 2.5L to 10L	0.25L to 1L per mm of irrigation
Small volume applications	2mL per litre in hand sprayers and knapsacks; 20mL per 9L watering can	



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

[www.bactivate.com.au](http://www.bactivate.com.au)

