

**MARINE BIOLOGICAL FERTILISER  
SOIL BIO-ESSENTIALS BLEND  
+ 9 BENEFICIAL MICROBES  
+ ORGANIC CARBON**

- + CONTAINS 9 BENEFICIAL BIO-ACTIVE MICROBES
- + IMPROVES SOIL QUALITY AND STRUCTURE
- + INCREASE NUTRIENT AVAILABILITY AND UPTAKE
- + BUILD THE IMMUNE STRUCTURE WITHIN THE PLANT
- + REDUCE THE IMPACTS OF SALINITY AND DISEASE
- + INCREASES MOISTURE RETENTION CAPACITY
- + SHAKE WELL PRIOR TO APPLICATION

**BIOESSENTIALS** is a sustainable, marine-based biological fertiliser designed to restore and enrich soil health. Formulated with nine bio-active probiotic bacteria and fungi, this product works to rejuvenate the soil ecosystem, enhancing its biological activity and overall fertility. The probiotic strains form beneficial biofilm communities around plant roots, fostering a symbiotic relationship that improves nutrient uptake and plant resilience. Bioessentials helps to alleviate the negative effects of soil salinisation, supports mycoremediation of organic soil contaminants, and solubilises inorganic phosphate, making essential nutrients more available to plants. Additionally, the naturally occurring enzymes, siderophores, and antibiotics produced by the probiotic bacteria provide protection against soil-borne pathogens, promoting healthier, more vigorous plants. By improving soil structure and function, Bioessentials lays the foundation for sustained soil health, supporting improved plant growth and vitality.

## TYPICAL PRODUCT ANALYSIS

TOTAL MAJOR NUTRIENTS	UNIT
NITROGEN (N)	% 1.948
PHOSPHORUS (P)	% 0.033
POTASSIUM (K)	% 9.07
SULPHUR (S)	% 3.06
TOTAL CATIONS	
CALCIUM (CA)	% 1.54
MAGNESIUM (MG)	% 0.58
SODIUM (NA)	% 3.08
TOTAL MINERALS	
COPPER (CU)	PPM 68.43
ZINC (ZN)	PPM 11.3
IRON (FE)	PPM 0.272
MANGANESE (MN)	PPM 66.8
COBALT (CO)	PPM 1.41
MOLYBDENUM (MO)	PPM 0.614
BORON (B)	PPM 21.5
CARBON CONTENT	
ORGANIC MATTER	% 11.1
ORGANIC CARBON	% 32
CARBON/NITROGEN RATIO	C/N 16-18
PH (1:5 WATER)	6.5-7
BENEFICIAL MICROBES	
9P ACTIVE MICROBIAL BLEND (ORGANIC NON-GM PROPRIETARY FORMULA, INCLUDING: BACILLUS SPP., TRICHODERMA SPP., PAECILOMYCES SPP. AND PENICILLIUM SPP.)	

CROP TYPE	UNIT	FREQUENCY RECOMMENDATIONS
VEGETABLES	4-6 L per Ha Diluted with 200-300L Water	<b>Short crops</b> (less than 10 weeks) - Once per crop rotation within 2 weeks of planting. <b>Long crops</b> (over 10 weeks) - Twice per crop rotation. <b>First app</b> within 2 weeks of planting, <b>Second app</b> midway through crop cycle.
PASTURE	4-6 L per Ha Diluted with 200-300L Water	Apply in <b>Autumn and Spring</b>
ALL OTHER CROPS	4-6 L per Ha Diluted with 200-300L Water	Contact <b>Falcon UAV</b> Soil Specialist for Application <b>Frequency Recommendations</b>

Our Wild Harvested Seaweed and Abalone Fertilisers are sustainably sourced from Victoria waters. Our Full range of Organic Fertilisers are proudly Australian Made & Owned.