

Algae Micronutrients and Plant Growth Stimulants

Advantages of Brown Algae

- Provide Proteins, Amino Acids, Vitamins and Minerals
- Content of N, P, K, Ca, Fe, Mg, Zn, Na, S
- Abiotic stress tolerance is increased in vegetable cultures by natural betaines such as glycine betaine or laminin
- Content of natural sugar alcohol Mannitol and Phenol
- Nitrogen assimilation is improved
- Support of formation of useful microorganisms, esp. mycorrhiza or rhizobia

Mechanism of Brown Algae

- Brown algae contain antioxidants and flavonoids to reduce stress in UV light
- Gene expression promotes nitrogen and auxin transport and thus the growth of lateral roots
- Phytohormone-like effects via auxin indole-3 acetic acid support plant growth
- Increased amylase activity
- Increase in salt tolerance in individual cases
- Improved biogenesis of chloroplasts help to increase the chlorophyll content

Product description & Dosage

- Dry powder
- Recommended quantity 0.2 3.0 wt .-% of plant substrate
- Swellable and water-storing
- Humidity below 12%, free of germs and mold



Macrocystis Pyrifera:

- o contains Potassium Iodide
- soil additive for Soybean, Corn, Wheat and Sorghum crops among other

Ecklonia Maxima:

- contains antioxidants, 9-11 %
 Protein, 3 -7 % Kalium, 1 -6 %
 Calcium, 8500 ppm Amino acid
 Tyrosin, Phytohormons (Auxine, Cytokinine)
- improves the quality and taste of vegetables, herbs and microgreens

Ascophyllum Nodosum:

- supports plant growth and colonization of roots with symbiotic spores
- supports Rhizobacteria
 Sinorhizobium melitoli to increase fixation of nitrogen for Alflafa

Durvillea Antarctica:

- Soil additive, contains about 30 % Alginic Acid
- Water Storage by stable Honeycomb Structure
- Food Status (Chile)

Contact us for more information and find out about further JRS products for Plant Cultivation.

J. RETTENMAIER & SÖHNE Fibers designed by Nature

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