

AlgaFlex

Concentrated liquid seaweed extract
(30% w/v soluble solids)

AlgaFlex is a highly concentrated aqueous extract of seaweed containing no less than 30% w/v soluble seaweed solids. The Biotechnica extraction process uses relatively low temperatures and no chemicals to extract the active ingredients from *Ascophyllum Nodosum* seaweed hand-harvested from the cold coastal waters of the Atlantic Ocean.

Physical and Chemical Properties (Properties will vary due to conditions at time of harvesting. A full analysis of the batch purchased is available on request)

pH

4.0 – 4.8, ideal for plant uptake

Specific Gravity 1.125 – 1.165

Appearance

Dark brown liquid

Typical analysis

| | |
|------------------------|----------|
| Organic matter | 15% |
| Soluble seaweed solids | >30% |
| Alginic Acid | 5-10% |
| Mannitol | 2-4% |
| Nitrogen | 0.1-0.2% |
| Phosphorus | 0.01% |
| Potassium | 0.5-1.0% |
| Magnesium | 100 ppm |
| Manganese | 50 ppm |
| Iron | 100 ppm |
| Copper | 8 ppm |
| Zinc | 5 ppm |

Preservatives

Potassium sorbate (0.015%) and sodium benzoate (0.03%) used as the preservatives.

Application protocols

AlgaFlex should be applied early in the crop cycle. Always dilute in water and apply as either a foliar spray or soil drench. Ensure the product has fully dispersed before starting application. If necessary, agitate the product to disperse. Thoroughly flush the application apparatus after use and do not store diluted product for more than three days.

Incompatibilities

AlgaFlex can be incompatible with alkaline products, such as potassium humate, potassium silicate and some pesticides. Biotechnica cannot predict or guarantee tank mix success for any product; always conduct a bucket test to confirm compatibility.

Potatoes

Apply 3L/ha at tuber initiation to improve the skin set and flavour of shy varieties. Alternatively, **AlgaFlex** can be applied in furrow at planting at 1.5L/ha in two subsequent sprays over 28 days to retain strong green foliage, extending the bulking period and improving tuber yield and dry matter content. Can be applied in combination with fungicide sprays throughout the growing season, but it is advised to carry out a 'bucket test' to determine compatibility between **AlgaFlex** and other products.

Scab Unlike other alkaline seaweed extracts on the market, **AlgaFlex** is mildly acidic, so diluted product can be applied directly to the seed potato skin without damage or predisposing them to infection by *Streptomyces scabies*.

Cereals

Use to increase yield and protein content and to protect against environmental stresses. Apply 3L/ha mixed with a pre-emergence herbicide in order to 'pump-prime' the soil microbial community. 3L/ha between 2 and 6 leaf stage (or in combination with pesticides). 2L/ha 28 days later to maintain healthy green foliage and strengthen plant defences.

Oilseed rape

Apply 3L/ha as soon as spring growth is evident. 3L/ha in late autumn for winter rape to produce a strong and resilient root system.

Sugar beet

Apply 2L/ha at 4 true leaf stage. Early use of **AlgaFlex** promotes vigorous seedling establishment better able to withstand stresses that may cause bolting in mid-summer. 2L/ha in two subsequent sprays over 6 weeks to maintain rapid vegetative growth, strong plant defences and a beneficial soil biology.

Grassland

Apply 3L/ha during spring growth to stimulate chlorophyll production and promote tillering. 2L/ha during summer decline to maintain a strong root system over winter. Silage: 3L/ha three weeks before each cut.

Top fruit and soft fruit

AlgaFlex can be applied as a foliar spray, root drench, through irrigation lines or as a root dip during planting.

Apply 2L/ha during flowering. Continue to apply in conjunction with other sprays during the season when strong vegetative growth is desired.

Root dips

Dilute 1 part **AlgaFlex** in 200 parts water. This is particularly useful in ensuring plants get off to a strong start producing a healthy robust root system that can better ward off soil-borne diseases.

Protected edibles and ornamentals

Regular applications from the transplant stage when strong healthy growth is required. Dilute 1 part in 200 parts water and apply through irrigation or sprayers.

Regular use on tomatoes results in increased soluble solids.

Compost activation

AlgaFlex also makes an excellent compost activator. Once diluted, it provides a rich source of nutrition for aerobic microbes. It also provides the trace elements zinc and iodine, which, if deficient, can limit the microbial digestion of plant material.

Organic cultivation

AlgaFlex is approved for use in organic cultivation by the Organic Farmers and Growers Association.

For more information on any of our products, contact our BioAgronomy experts.

biotechnica

Central Pharma Biotechnica

Hudson Road, Bedford

MK41 0HR

Tel: +44 (0) 1234 989 000

www.biotechnica.co.uk