

Driven by nature. Backed by science.

TECHNICAL DATA SHEET

KELP

Liquid · 100% Ascophyllum nodosum extract

Sigma Seaweed

Long-term food source and translocator

100% kelp extract from sustainably harvested Ascophyllum nodosum, extracted to preserve bio-actives. In Sigma programs it is the consumable organic matter that drives colonization of the biology.

Stress tolerance

Betaines, polysaccharides, mannitol and proline help crops through drought, heat, cold and salinity.

Nutrient uptake

Alginic acid and mannitol improve uptake of Ca, Mn, Mg, Fe, B, Cu and Zn.

Soil biology

Amino acids, alginic acid and natural sugars feed soil microbes.

Guaranteed analysis

Total nitrogen (N)	0.1%
Water-soluble nitrogen	0.1%
Soluble potash (K_2O)	0.1%
Derived from	Kelp extract (Ascophyllum nodosum)
Organic matter	40% by weight
pH	4.5

Notes

- Fine-filtered for sprayer and drip compatibility; no fillers, not diluted
- Low pH helps other active ingredients in the tank perform

Crop rates

Use	Rate
Per application, soil or foliar	64 oz / acre
In a spray or fertigation tank	64 oz / 100 gal
Applications per season	2 to 12, by crop

Tank-mixed with the Sigma liquid package at each spray timing. See the crop-by-crop programs for each crop's schedule.

When to apply

- At planting or transplant
- Early growth (2 to 6 leaf, or 3 to 5 weeks after emergence)
- Pre-bloom and first bloom
- Fruit set
- After each picking, and post-harvest for perennials

Apply by: In-furrow, transplant drench, drip and fertigation, broadcast soil spray or foliar.

Tank order

Fill the tank one-third with water and agitate. Add Sigma Bio, Molasses, Microalgae, Biochar 5M, Seaweed, then K-Ferm, then the rest of the spray. Jar test new partners; avoid partners at pH 8 or higher.

Packaging: 2.5 gal (9.46 L) · 275 gal tote (1,041 L). Compatible with most fertilizers and crop protection products in the same tank. Store in the original container; protect from freezing.

Values from current Sigma product literature. Crop rates are starting points; set rates per field from soil and tissue tests. Sigma products are not pesticides. Always read and follow the product label; confirm state registration.