

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 the Foundation Program it is the consumable organic matter that drives colonization of the biology.

Stress tolerance

Betaines, polysaccharides, mannitol and proline help turf 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 compatibility; no fillers, not diluted
- Low pH helps other active ingredients in the tank perform

Rates · Sigma Liquid Foundation Program

Spray interval	oz / acre	oz / 1,000 ft²
Weekly (7-day)	**22–44**	0.5–1
14-day	**44–88**	1–2
21-day	**66–132**	1.5–3
28-day	**88–176**	2–4

Set per acre per week; multiply by the weeks between sprays.

Tank order

Fill one-third with water and agitate. Add Sigma Bio, Molasses, Microalgae, Biochar 5m, Seaweed, then K-Ferm. Build the scheduled spray on top (nutrients, then W-A-L-E-S). Watch for partners at pH 8 or higher. Jar test; water in within 36 hours.

Packaging: 2.5 gal (9.46 L) · 275 gal tote (1,041 L).

Compatible with fungicides, insecticides, PGRs, wetting agents and fertilizers in the same application. Store in the original container; protect from freezing.

Values from current Sigma product literature. Sigma products are not pesticides. Always read and follow the product label; confirm state registration.