

## Cold-Pressed Norwegian Sea Kelp Product Comparison

This is a price comparison of cold-pressed *Ascophyllum nodosum* products on the market:

Product	Volume Tested	Price per bottle (MSRP)	Mix Rate (after conversions)	Price per gallon (mixed)
Algen Extract (H&G)	1L	\$110	1-2 mL / gallon	\$0.11-\$0.22
Alg-a-Mic (BioBizz)	1L	\$34	2-5 mL / L	\$0.27-\$0.68
Nitrozyme (Hydro Int'l)	1L	\$34	2-5 mL/L	\$0.27-\$0.68
BioWeed (GH)	1 QT	\$17.50	2.5-5 mL / gall	\$0.05-\$0.09
Extreme Serene (Roots Organics)	1 QT	\$31.99	9-15 mL / gall	\$0.29 – \$0.48
SeaPlex (Botanicare)	1 QT	\$21.99	15-30 mL / gall	\$0.33 – \$0.67
Eco-Kelp	1 QT	\$19.95	60 mL gall	\$1.20

These are virtually the same product – high-end quality cold-pressed Norwegian Sea Kelp. Algen Extract is extremely affordable – and since I only use it at a rate of 0.5-1mL anyways, it would be tied for the least pricey of the high quality kelps with General Organics but made in smaller batches.

### Cold-pressed kelp contains:

1. Macronutrients
2. All known trace elements
3. Alginic acid - soil conditioner that improves H<sub>2</sub>O-holding capabilities – “keeps it crumbly”
4. Vitamins – A, B1, B2, B5, B9, B12, C, E, K
5. Natural plant hormones – auxins (IAA, others), gibberellins, cytokinins
6. Carbohydrates / Polysaccharides
7. Amino acids
8. Natural antibiotics
9. Betaines – protects against osmotic stress
10. Mannitol – increased tolerance to salts and osmotic stress; fights pathogens
11. Organic acids

### Sources / further research:

1. Agricultural Research Council (U.K.)
2. Annual Review of Plant Physiology
3. Institute of Seaweed Research