



**Atlantic-Gro® Seaweed Meal**  
Mineral/Amino Acid/Vitamin Typical Analysis

**Main Components (Average %)**

Moisture	12.0%
Protein	9.5%
Fat	0.8%
Crude Fiber	6.5%
Total Ash (minerals)	25.0%
Carbohydrates	46.2%

**Macronutrients (Average %)**

Calcium (Ca)	1.40%
Chloride (Cl-)	4.80%
Magnesium (Mg)	0.83%
Nitrogen (N)	1.52%
Phosphorus (P)	0.32%
Potassium (K)	1.91%
Sodium (Na)	1.74%
Sulphur (S)	2.07%

**Micronutrients (PPM)**

Aluminum (Al)	490 ppm
Boron (B)	140 ppm
Cobalt (Co)	1 ppm
Chromium (Cr)	2 ppm
Copper (Cu)	4 ppm
Iron (Fe)	850 ppm
Iodine (I)	600 ppm
Manganese (Mn)	200 ppm
Molybdenum (Mo)	1 ppm
Strontium (Sr)	330 ppm
Selenium (Se)	0.1 ppm
Tin (Sn)	3 ppm
Titanium (Ti)	12 ppm
Zinc (Zn)	23 ppm

**Amino Acid Content (% of Total Amino Acids)**

Alanine	5.30%
Arginine	7.83%
Aspartic Acid	9.33%
Cystine	3.92%
Glutamic Acid	13.48%
Glycine	6.11%
Histidine	1.73%
Hydroxyproline	0.35%
Isoleucine	4.38%
Leucine	7.14%
Lysine	5.99%
Methionine	1.27%
Phenylalanine	5.65%
Proline	4.38%
Serine	6.45%
Threonine	4.95%
Tryptophan	0.58%
Tyrosine	3.69%
Valine	<u>7.49%</u>

Total	100.00%
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**Vitamins**

Biotin	< 5 mg/lb
Carotene	0.790 mg/lb
Folic Acid	.0351 mg/100g
Niacin	1.31 mg/100g
Riboflavin	1.72 mg/lb
Vitamin B12 (Cyanocobalamin)	0.905 ug/100g
Vitamin C	< 100 ppm
Vitamin E	< 25 IU/lb
Vitamin K3 (Menadione)	< 0.005 ppm

Atlantic Gro® is a 100% natural certified organic Seaweed Meal comprised of two macroalgae species, Laminaria longicuris and Fucus vesiculosus, harvested from the shores of Prince Edward Island, Canada.

The information presented above is believed to be accurate and reliable based on analytics conducted by several accredited laboratories in the period 2010 thru 2016. Given that natural macroalgae products can encounter seasonal fluctuations in nutrient content North Atlantic Organics Ltd. makes no warranty, express or implied, and assumes no liability for the information presented herein. As such, these results are averages and not guaranteed as a condition of sale.