

# Ascophyllum nodosum

## Typical analysis

Ascophyllum nodosum is a 100% natural organic marine algae product. Therefore, a specific laboratory analysis may vary from the typical analysis due to naturally occurring fluctuations in the sea plant. The information presented below is believed to be accurate and reliable. However, VitaminSea Seaweed make no warranty, either expressed or implied, and assumes no liability for this information and the product described herein. These are averages and are not guaranteed as conditions of sale.

General (Average %)	
Moisture	09.0
Crude Protein	08.5
Crude Fiber	04.0
Total Ash (minerals)	29.0
Fat	02.0
Carbohydrates (nitrogen free extracts)	<u>47.5</u>
<b>Total</b>	<b>100.0</b>

Vitamins		
A	Retino	1390 ppb
B2	Riboflavin	4.9 ppm
B3	Niacin	182.6 ppm
C	Ascorbic Acid	375 ppm
D	Cholecalciferol	150 ppb
E	Alpha Tocopherol	110 ppm

Amino Acids (% of Amino Acids)	
Alanine	5.52
Arginine	5.47
Aspartic Acid	9.88
Cystine1	.49
Glycine	5.70
Glutamic Acid	12.03
Histidine	1.29
Isoleucine	3.26
Leucine	5.63
Lysine	4.24
Methionine	1.07
Phenylalanine	3.54
Proline	3.71
Serine	4.92
Threonine	4.60
Tryptophan	1.68
Tyrosine	3.52
Valine	3.51

Minerals and Elements		
Ca	Calcium	2.1%
Cl	Chlorine	6.5%
K	Potassium	2.7%
Mg	Magnesium	0.85%
N	Nitrogen	1.4%
Na	Sodium	4.0%
P	Phosphorus	0.3%
S	Sulphur	2.8%
(parts per million-ppm)		
Al	Aluminum	289
As	Arsenic (FCC)	<3
B	Boron	98
Cd	Cadmium	1
Co	Cobalt	4
Cr	Chromium	0.8
Cu	Copper	4
Fe	Iron	622
Hg	Mercury	0.4
I	Iodine	780
Mn	Manganese	60
Mo	Molybdenum	2
Pb	Lead	<5
Se	Selenium	0.3
Sn	Tin	6.5
Zn	Zinc	12