

TYPICAL ANALYSIS

KELP MEAL

General Properties

The seaweed *Ascophyllum nodosum* is harvested, machine dried, and sized. It is dark green in color with a light salty flavor.

Particle Size

Standard: 14 Mesh

Components

Protein:	5.7%
Fat:	2.6%
Fiber:	7.0%
Moisture:	10.7%
Ash:	15.4%
Carbohydrates:	58.6%

Carbohydrates

Alginic AcidK	26.7%
Laminarin:	9.3%
Mannitol:	4.2%
Methylpentosans:	7.0%
Other Sugars:	11.4%

Vitamins

Ascorbic acid (C):	500 - 2000
Tocopherols (E):	150 - 300
Carotene (A):	30 - 60
Ba:	15 - 50
Niacin:	10 - 30
Vitamin K:	10
Riboflavin:	5 - 10
Ni:	2 - 5
V:	1.5 - 3
Thiamin:	1-5
Folic acid:	0.0 - 0.5
Folinic acid:	0.1 - 0.5
Biotin:	0.1 - 0.4
Vitamin B ₁₂ :	0.004

Amino Acids

(as gms of amino acid nitrogen/ 100 gms of protein nitrogen)

Alanine:	5.0
Arginine:	11.8
Aspartic Acid:	8.7
Glutamic Acid:	5.3
Glycine:	5.7
Leucine:	8.7
Lysine:	4.1
Serine:	3.3
Threonine:	2.7

Tyrosine: 0.5
 Valine + Methionine: 14.0

Minerals and Elements

Aluminum: .193%
 Antimony: .00014%
 Barium: .00128%
 Boron: .0194%
 Calcium: 1.904%
 Chlorine: 3.68%
 Cobalt: .00123%
 Copper: .00064%
 Fluorine: .03265%
 Germanium: .00001%
 Gold: .00001%
 Iodine: .0624%
 Iron: .08956%
 Lanthanum: .00001%
 Lead: .00001%
 Lithium: .00001%
 Magnesium: .213%
 Manganese: .1235%
 Mercury: .00019%
 Molybdenum: .00159%
 Nickel: .0035%
 Nitrogen: .0624%
 Phosphorus: .211%
 Potassium: 1.28%
 Rubidium: .00001%
 Selenium: .00004%
 Silicon: .1642%
 Sodium: 4.18%
 Sulfur: 1.564%
 Strontium: .07488%
 Thallium: .00029%
 Tin: .00001%
 Titanium: .00001%
 Tungsten: .00003%
 Vanadium: .00053%
 Zinc: .00352%

Trace or Undeclared Amounts

Beryllium, Bromine, Bismuth, cadmium, Carbon, Cesium, Cerium, Chromium, gallium, Hydrogen, Indium, Iridium, Niobium, Osmium, Oxygen, Palladium, Platinum, Radium, Rhodium, silver, Tellurium, Thorium, Uranium, Zirconium