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Thorvin for Animals – Specifications

Certified 100% Organic

PRODUCT DESCRIPTION

Species	<i>Ascophyllum nodosum</i>
Plant Part	Milled Sea Vegetation (whole thallus)
Processing Method	Sustainable harvest, controlled geothermal low-temperature drying
Primary Active	Phytonutrients, Iodine and other micronutrients
Particle Size	Granules and powder
Color	Green
Aroma	Mild marine odor
Taste	Salty
Storage	Dry area
Shelf Life	Best used within 36-months
Packaging	50 or 55-lb. Kraft bag, or in bulk tote
Certificates	Certified 100% Organic by QAI

ANALYSIS

Activity	600 – 1200 ppm (0.06 – 0.12%) Iodine		Test Methods
Moisture	NMT 10%		
Ash	NMT 45%		
Lead	NMT 5 ppm		ICP-MS
Inorganic Arsenic	NMT 1 ppm		IC-ICP-MS
Cadmium	NMT 2.0 ppm		ICP-MS
Mercury	NMT 0.05 ppm		ICP-MS
Microbial	Aerobic Plate Count	<100,000 CFU/g	FDA BAM 3
	Total Coliform	<1,000 CFU/g	CMMEF 8.7
	E. coli	N/D (<3 CFU/g)	BAM 4
	Salmonella	Negative (ND/50g)	AOAC-RI960801
	Yeast/Mold	<5,000 CFU/g	FDA BAM 18

Thorvin contains over 60 minerals, vitamins, amino acids, and beneficial phytonutrients.

Thorvin 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 seaplant. The information presented above is believed to be accurate and reliable; however, Thorvin, Inc. makes no warranty, either express 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.

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Thorvin for Animals – Typical Analysis

General (Average %)

Moisture	9.0
Protein	8.5
Crude Fiber	4.0
Total Ash (minerals)	29.0
Fat	2.0
Carbohydrates (Nitrogen-free extracts)	47.5
<i>Total</i>	100.0

Macronutrients (%)

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	Sulfur	2.8

Micronutrients (PPM)

Al	Aluminum	289
B	Boron	98
Co	Cobalt	4
Cr	Chromium	0.8
Cu	Copper	4
Fe	Iron	622
I	Iodine	780
Mn	Manganese	60
Mo	Molybdenum	2
Se	Selenium	0.5
Sn	Tin	6.5
Zn	Zinc	12

VITAMINS

A	Retinol	390 ppb
B ₂	Riboflavin	4.9 ppm
B ₃	Niacin	182.6 ppm
C	Ascorbic Acid	375 ppm
D	Cholcalciferol	150 ppb
E	Alpha-tocopherol	110 ppm

AMINO ACIDS (% OF TOTAL AMINO ACIDS)

Alanine	5.52	Lysine	4.24
Arginine	5.47	Methionine	1.07
Aspartic Acid	9.88	Phenylalanine	3.54
Cystine	1.49	Proline	3.71
Glycine	5.70	Serine	4.92
Glutamic Acid	12.03	Threonine	4.60
Histidine	1.29	Tryptophan	1.68
Isoleucine	3.26	Tyrosine	3.52
Leucine	5.63	Valine	3.51

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Ingredients: Dried Kelp* (*Ascophyllum nodosum*)

*USDA Certified 100% Organic

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