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## Icelandic Geothermal Kelp – Specifications

### *Laminaria digitata*

**Certified 100% Organic**

#### PRODUCT DESCRIPTION

<b>Species</b>	<i>Laminaria digitata</i>
<b>Plant Part</b>	Milled Sea Vegetation (whole thallus)
<b>Processing Method</b>	Sustainable harvest, controlled geothermal low-temperature drying
<b>Country of Origin</b>	Iceland
<b>Primary Active</b>	Phytonutrients, Iodine and other micronutrients
<b>Recommended Daily Serving</b>	50 milligrams*
<b>Particle Size</b>	Granules and Powder
<b>Color</b>	Green
<b>Aroma</b>	Mild marine odor
<b>Taste</b>	Salty
<b>Storage</b>	Dry area
<b>Shelf Life</b>	Best used within 60-months
<b>Packaging</b>	25 kg. (55 lbs.); Multi-walled Kraft bag; easy-pour spout
<b>Certificates</b>	Certified 100% Organic by QAI; Certified Kosher by Star-K

#### ANALYSIS

Activity	2500-7500 ppm (0.25 – 0.75%) Iodine		Test Methods
<b>Moisture</b>	NMT 10%		
<b>Ash</b>	NMT 50%		
<b>Lead</b>	NMT 5 ppm	ICP-MS	
<b>Inorganic Arsenic</b>	NMT 30 ppm	IC-ICP-MS	
<b>Cadmium</b>	NMT 1.5 ppm	ICP-MS	
<b>Mercury</b>	NMT 0.05 ppm	ICP-MS	
<b>Microbial</b>	Aerobic Plate Count	<10,000 CFU/g	FDA BAM 3
	Total Coliform	<1,000 CFU/g	FDA BAM 4
	E. coli	N/D (<10 CFU/g)	FDA BAM 4
	Salmonella	Negative (ND/25g)	AOAC-989.09
	Yeast/Mold	<2,500 CFU/g each	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 sea plant. 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.

\*Delivers 225 micrograms of Iodine, the FDA (CFR Title 21 Part 172) recommendation for Iodine from kelp.

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 THOR-IGK-LAM-SPEC-020618

## Icelandic Geothermal Kelp – Typical Analysis

### *Laminaria digitata*

#### General (Average %)

Moisture	5.4
Protein	8.3
Crude Fiber	3.5
Total Ash (minerals)	31.0
Fat	0.6
Carbohydrates	51.2
<i>Total</i>	100

#### Macronutrients (%)

Ca	Calcium	1.4
Cl	Chlorine	9.8
K	Potassium	8.27
Mg	Magnesium	0.67
N	Nitrogen	1.4
Na	Sodium	3.22
P	Phosphorus	0.22
S	Sulfur	1.0

#### Micronutrients (PPM)

Al	Aluminum	289
Co	Cobalt	4
Cu	Copper	4
Fe	Iron	622
I	Iodine	4687
Mn	Manganese	60
Se	Selenium	0.5
Sn	Tin	6.5
Zn	Zinc	12

#### VITAMINS (PPM)

B <sub>1</sub>	Thiamin	0.6
B <sub>2</sub>	Riboflavin	5.6
C	Ascorbic Acid	167.0

#### AMINO ACIDS (% OF TOTAL AMINO ACIDS)

Alanine	10.3	Leucine	4.9
Arginine	2.8	Lysine	4.3
Aspartic Acid	11.5	Phenylalanine	2.7
Cystine	3.0	Serine	5.0
Glycine	5.0	Threonine	6.0
Glutamic Acid	12.4	Tyrosine	3.4
Histidine	1.4	Valine	3.3
Isoleucine	2.5		

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Ingredients: Certified 100% Organic Seaweed Meal

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