

MILLED KELP (*Laminaria digitata*)

PRODUCT SPECIFICATIONS

Typical Analysis

Data varies seasonally, with mesh size and moisture content

PHYSICAL CHARACTERISTICS

| | Mesh | Moisture | Total Ash | Acid-Insoluble Ash |
|-----------------|-------------|-----------------|------------------|---------------------------|
| Granules | 20/50 | NMT 10% | NMT 50% | 0.5-6.0% |
| Powder | 50 | NMT 10% | NMT 50% | 0.5-6.0% |

Color: green/olive **Flavor:** salty **Aroma:** mild marine odor

Density: 1 cup gran. = approx. 175 g; 1 cup powder = approx. 188 g

Hydration Holds 6 times dry weight in water

capacity: Increases in volume 3-4 times when wet

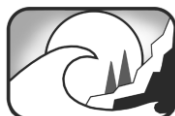
QUALITY CONTROL

| METALS | | <i>Method</i> |
|---------------------------|-----------|-------------------------|
| Arsenic, inorganic | <30 ppm | IC-ICP-MS |
| Lead | <3.0 ppm | SW-846 3050/SW-846 6010 |
| Cadmium | < 1.5 ppm | SW-846 3050/SW-846 6010 |
| Mercury | <0.1 ppm | SW-846 7471/SW-846 7471 |

| MICROBIOLOGICAL | | <i>Method</i> |
|----------------------------|-------------------|---------------|
| Total Aerobic Count | <100,000 cfu/g | AOAC 121204 |
| Coliforms | <100 cfu/g | AOAC 060702 |
| E. coli | ND/10g | USP 31<62> |
| Yeast/Mold | <1,000 cfu/g | AOAC 041001 |
| Salmonella | Negative (ND/10g) | USP 31<62> |
| Staph. aureus | Negative (ND/10g) | USP 31<62> |

| CHEMICAL | | <i>Method</i> |
|-------------------------|------------|---------------|
| Pesticide Screen | Undetected | SW-846 8081A |
| Herbicide Screen | Undetected | SW-846 8151A |
| Petroleum Screen | Undetected | SW-846 8270C |
| PCBs Screen | Undetected | SW-846 8082 |

Certified Organic by OCIA; raw materials also certified organic by QAI/TUN (EU).



| NUTRITIONAL | | | | | |
|----------------------|---------------|-------------------|---------|-------------------|---------|
| Fat | 0.5-3 % | Potassium | 2.5-7% | Zinc | 12 ppm |
| Sat. Fat | 0 | Calcium | 1.5-3% | Cobalt | 1.3 ppm |
| Calories | 243/100g | Magnesium | 0.67% | Selenium | 0.5 ppm |
| Protein | 7.0-8.7% | Phosphorus | 0.22% | Tin | 5.1 ppm |
| Dietary Fiber | 37% | Sulfur | 1.0% | Copper | 4.0 ppm |
| Iodine | 2500-7500 ppm | Iron | 373 ppm | Vitamin B1 | 0.6 ppm |
| Salt (NaCl) | 15.2% | Aluminum | 496 ppm | Vitamin B2 | 5.6 ppm |
| Sodium | 3.22% | Manganese | 26 ppm | Vitamin C | 167 ppm |
| Chlorine | 9.8% | | | | |

| AMINO ACIDS (% of total Aminos) | | | |
|---------------------------------|------|----------------------|-----|
| 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 | Isoleucine | 2.5 |
| Valine | 3.3 | | |

COUNTRY OF ORIGIN Iceland

STORAGE & HANDLING

Hygroscopic and photosensitive material. Keep tightly closed and out of sunlight.
Optimal storage: cool (30-60° F), dry (50-80 RH), away from other odorous materials.

SHELF LIFE Best used by 3 years from production.

KELP (*Laminaria digitata*) is a type of wild, natural marine algae. Specific analysis may vary from the above typical analysis. Naturally occurring fluctuations in content are due to season, weather conditions, tidal flow, and time of harvest.

