

Kelp Agri Products

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Typical Analysis of Bull Kelp originating from Tasmania, Australia

Botanical name: *Durvillea Potatorum*

Minerals and Trace Elements

Alginates	600-700 g/kg	Manganese	61.50 ppm
Boron	70 ppm	Nitrogen	0.75%
Calcium	1.40%	Phosphorus	0.15%
Cobalt	12 mg/kg 12.00 ppm	Potassium	1.20%
Copper	6 mg/kg 6.00 ppm	Selenium	0.09 ppm
Iodine	0.5 g/kg 500 ppm	Sodium Chloride	3.00%
Iron	0.8 g/kg 800 ppm	Sulphur	0.82%
Magnesium	1.00%	Zinc	30.00 ppm

Vitamins

Vitamin A - Retinol	150 IU/kg	Vitamin C - Ascorbic Acid	10 mg/kg
Vitamin B1 - Thiamine	200 mcg/kg	Vitamin E - Tocopherol	6.4 mg/kg
Vitamin B2 - Riboflavin	2.5 mg/kg	Choline	275 mg/kg
Vitamin B3 - Niacin	23 mg/kg	Carotene	42 mg/kg
Vitamin B6 - Pyridoxene	230 mcg/kg	Pantotene	7 mg/kg

Cytokinins and Auxins (hormones or growth regulators)

Cytokinins - compounds which are manufactured in the root system and responsible for cell division and elongation in plants

Trans Zeatin Riboside (ZR)	7.00 +/- 1.0 micrograms/litre
Isopentenyl Adenosine (IPA)	2.00 +/- 1.0 micrograms/litre
Trans Zeatin (Z)	0.07 +/- 0.3 micrograms/litre
Isopentenyl Adenine	16.00 +/- 1.5 micrograms/litre

Auxins - compounds produced in the root and stem cell division and responsible for promoting root growth and initiating buds

Tri Indole Acetic Acid	150.00 micrograms/litre
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Gibberellins - compounds produced in active leaves and also responsible for cell elongation

Gibberellins along with auxins facilitate cell elongation.

Amino Acid Analysis - Averages

Amino Acid Type	Total % Amino Acid	gm/Amino Acid in 100 gm Crude Protein	gm/Amino Acid in 100 gm Dry Matter	Amino Acid Type	Total % Amino Acid	gm/Amino Acid in 100 gm Crude Protein	gm/Amino Acid in 100 gm Dry Matter
Aspartic acid	0.477	8.658	0.542	Valine	0.206	3.744	0.234
Threonine	0.193	3.494	0.219	Cystine	0.105	1.905	0.119
Serine	0.197	3.577	0.224	Methionine	0.070	1.272	0.080
Glutamic acid	0.498	9.031	0.565	Isoleucine	0.143	2.593	0.162
Proline	0.165	2.991	0.187	Leucine	0.249	4.513	0.283
Glycine	0.203	3.682	0.231	Lysine	0.182	3.301	0.207
Alanine	0.272	4.936	0.309	Arginine	0.132	2.402	0.150
Subtotals	2.005	36.369	2.277	Subtotals	1.087	19.73	1.235
				TOTALS	3.092	56.099	3.512