

ANIONS[CATIONS ASSAY

<i>Product Code</i>	NGHA PWD {Powder}	
Criterion	Result mg/kg(ppm)	Test Method
Bromide	<500	Ion Chromatography
Chloride	1600	Ion Chromatography
Fluoride	<500	Ion Chromatography
Nitrate	<500	Ion Chromatography
Nitrite	<500	Ion Chromatography
Total Kjeldahl Nitrogen	3500	Colorimeter
Sulfate	1010	Ion Chromatography
Total Cyanide	0.8	Colorimeter
Total Organic carbon	44.3%	Titration

AMINO ACIDS ASSAY

<i>Product Code</i>	NGHA PWD {Powder}	
criterion	Result mg/g(ppt)	Test Method
Alanine	3.27	Derivative-HPLC
Arginine	2.03	Derivative-HPLC
Aspartic acid	0.02	Derivative-HPLC
cysteine	4.54	Derivative-HPLC
Glutamic acid	2.41	Derivative-HPLC
Glycine	0.88	Derivative-HPLC
Histidine	0.31	Derivative-HPLC
Isoleucine	8.96	Derivative-HPLC
Leucine	35.01	Derivative-HPLC
Lysine	10.32	Derivative-HPLC
Methionine	7.86	Derivative-HPLC
Phenylalanine	4.68	Derivative-HPLC
Proline	2.15	Derivative-HPLC
Serine	2.10	Derivative-HPLC
Threonine	4.61	Derivative-HPLC
Tryptophan	20.10	Derivative-HPLC
Tyrosine	17.42	Derivative-HPLC
Valine	3.27	Derivative-HPLC

Results calculated to a 7.5% w/v concentration using NGHA powder test results.

<u>NUTRITIONAL LABEL ASSAY</u>		
<i>Product Code</i>	NGHA PWD {Powder}	
Criterion	Result	Test Method
Fat by Acid Hydrolysis	<0.25 g/100g	Gravimetry
Protein	10.0g/100g	Kjeldahl
Ash	53.5g/100g	Gravimetry
carbohydrate	33.8g/100g	calculation
calories	175 kcal/100g	calculation
Saturated Fatty Acids	<0.10 g/100g	GC/AD
Mono-unsaturated Fatty Acids	<0.10 g/100g	GC/AD
Poly-unsaturated Fatty Acids	<0.10 g/100g	GC/AD
Trans Mono-unsaturated Fatty Acids	<0.10 g/100g	GC/AD
Trans Poly-unsaturated Fatty Acids	<0.10 g/100g	GC/AD
Omega-3 Fatty Acids	<0.10 g/100g	GC/AD
Omega"6 Fatty Acids	<0.10 g/100g	GC/AD
Cholesterol	<1 mg/100g	GC/AD
Dietary Fiber	<0.40 g/100g	Enzymatic
calcium (Food)	294 mg/100g	ICP-OES
Iron (Food}	135 mg/100g	ICP-OES
Sodium (Food)	381 mg/100g	ICP-OES
Sugars	<0.10 g/100g	HPLC
Vitamin A	<4 ER/100g	HPLC
Vitamin Beta-Carotene	<4 ER/100g	HPLC
Vitamin C	<0.20 mg/100g	HPLC
Moisture	2.75%	Gravimetry

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ELEMENTAL ANALYSIS

SAMPLE	% C	% H	% N	% S	% O	% ASH
NorthDakota	65	3.9	1.1	2.9	27	21
Utah	37	10.9	1.8	2.0	49	85
New Mexico	64	3.9	1.4	0.6	30	36
Wyoming	63	4.1	1.5	0.6	31	17
HUMALIFE	59	3.2	1.5	0.8	36	11

HYDROCARBON ANALYSIS

SAMPLE	COOH mmol/g	Phenol-OH mmol/g	Total Acidity % Mmol/g	% Aliphatic	% Aromatic	% Phenolic
North Dakota	3.4	2.5	5.9	68	21	4.6
Utah	2.7	2.5	5.2	60	23	8.1
New Mexico	3.1	3.7	6.8	54	33	7.0
Wyoming	3.6	3.3	6.9	56	31	6.3
HUMALIFE	3.2	3.8	7.0	28	55	12.6