



NEPTUNE
technologies & bioresources

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CERTIFICATE OF ANALYSIS

Neptune Krill Oil (100% PURE NKO™)

LOT #: NKO-050926

Date of release: 2005-10-18

05926

MANUFACTURING DATE: Sept. 2005

EXPIRATION: Sept. 2008

PARAMETER	STANDARD SPECIFICATIONS (*)	RESULTS	METHODS
PHYSICAL PROPERTIES			
Appearance	Red Viscous Oil	Conform	Visual
Odor	Light Shrimp Odor	Conform	Olfactive
Humidity	<0.8%	0.2%	A.O.A.C. 984.20
Viscosity	<1500 cP	594 cP	Brookfield U21, 1.5 rpm, 25°C
FATTY ACIDS			
Total Omega-3	>30.0 g/100 g	40.6 g/100 g	A.O.A.C. 991.39, 963.22, 996.06
EPA	>15.0 g/100 g	15.6 g/100 g	A.O.A.C. 991.39, 963.22, 996.06
DHA	>9.0 g/100 g	15.3 g/100 g	A.O.A.C. 991.39, 963.22, 996.06
Total Omega-6	(1.5-2.5) g/100 g	1.5 g/100 g	A.O.A.C. 991.39, 963.22, 996.06
Total Omega-9	>6.0 g/100 g	6.7 g/100 g	A.O.A.C. 991.39, 963.22, 996.06
Total Trans Fat	<0.1 g/100 g	Not detected	A.O.A.C. 991.39, 963.22, 996.06
PHOSPHOLIPIDS			
Total phospholipids	>40.0 g/100 g	50.3 g/100 g	A.O.C.S. Ja 7-86
ANTIOXIDANTS			
Pigments			
Esterified astaxanthin	>150.0 mg/100 g	156.8 mg/100 g	HPLC
Vitamins			
Vitamin A	>100 IU/g	169.5 IU/g	J. Sci. Agri. Vol. 29 Pg 697-702
Alpha-Tocopherol	>0.50 IU/g	0.52 IU/g	J. Sci. Agri. Vol. 29 Pg 697-702
NUTRITIONAL ANALYSIS			
Total lipids as fatty acids	>73.0 g/100 g	83.0 g/100 g	A.O.A.C. 996.06
Saturated fatty acids	<30.0 g/100 g	24.3 g/100 g	A.O.A.C. 996.06
Monounsaturated fatty acids	>12.0 g/100 g	14.8 g/100 g	A.O.A.C. 996.06
Polyunsaturated fatty acids	>32.0 g/100 g	43.9 g/100 g	A.O.A.C. 996.06
STABILITY INDEXES			
Saponification value	>165.0 mg KOH/g	180.6 mg KOH/g	A.O.A.C. 920.160
Iodine value	>130.0 g I ₂ /100 g	162.3 g I ₂ /100 g	A.O.C.S. Ja 14-91
p-Anisidine value	<1.2	0.9	A.O.C.S. Cd 16-90 modified
Peroxide value	<0.2 mEq peroxide/kg	0.0 mEq peroxide/kg	A.O.A.C. 985.33
Totox value	<1.6	0.9	By calculation
MICROBIAL ANALYSIS			
	Standard Spec.	Results	Detection limit
Total aerobic count	<1000 CFU/g	Not detected	10 CFU/g
Total coliform	<10 CFU/g	Not detected	10 CFU/g
<i>E. coli</i>	Negative/25 g	Not detected	Negative/g
Yeast & Molds	<100 CFU/g	Not detected	10 CFU/g
<i>Staphylococcus aureus</i>	<10 CFU/g	Not detected	10 CFU/g
<i>Listeria monocytogenes</i>	Negative/25 g	Not detected	Negative/25 g
<i>Pseudomonas aeruginosa</i>	Negative/25 g	Not detected	Negative/25 g
<i>Salmonella</i> spp.	Negative/25 g	Not detected	Negative/25 g

Preservative free.

(*) Uncertainty measure 5%.

Prepared by:

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