

CERTIFICATE OF ANALYSIS

NEPTUNE KRILL OIL (100 % Pure NKO®) – Product code 14585
LOT N° : NKO-1508061
MANUFACTURING DATE : August 06, 2015
EXPIRY DATE : August 06, 2018
VERSION : August 17, 2015

PARAMETER	STANDARD SPECIFICATION	RESULT	METHOD
COMPOSITION			
Total phospholipids ²	42 ± 2 g/100 g	42 g/100 g	³¹ P-NMR
Total Omega-3	≥ 25.0 g/100 g	30.0 g/100 g	Neptune IN-0901-04
EPA	≥ 18.0 % ¹	20.8 %	Neptune IN-0901-04
DHA	≥ 9.0 % ¹	12.6 %	Neptune IN-0901-04
EPA g/100 g	14.5 ± 1.0 g/100 g	14.3 g/100 g	Neptune IN-0901-04
DHA g/100 g	8.5 ± 1.0 g/100 g	8.7 g/100 g	Neptune IN-0901-04
Total <i>Trans</i> fat	< 0.1 g/100 g	< 0.1 g/100 g	Neptune IN-0901-42
Esterified astaxanthin	1000 ± 250 mg/kg	839 mg/kg	Neptune IN-0901-05
STABILITY INDEXES			
Saponification value	≤ 185 mg KOH/g	173 mg KOH/g	Neptune IN-0901-11
p-Anisidine value	< 5.0	< 0.6	Neptune IN-0901-25
Peroxide value	< 2.0 mEq peroxide/kg	< 0.3 mEq peroxide/kg	Neptune IN-0901-13
Totox value	< 6.0	1.2	Calculation
MICROBIAL ANALYSIS²			
Total aerobic count	< 1000 CFU/g	780 CFU/g	USP 61
Total coliform	< 10 CFU/g	< 10 CFU/g	MFHPB-34
<i>E. coli</i>	Absence (per 10 g)	Absence	USP 62
Yeast & Molds	< 100 CFU/g	< 10 CFU/g	USP 61
<i>Staphylococcus aureus</i>	Absence (per 10 g)	Absence	USP 62
<i>Listeria monocytogenes</i>	Not detected (per 25 g)	Not detected	MFHPB-07
<i>Pseudomonas aeruginosa</i>	Absence (per 10 g)	Absence	USP 62
<i>Salmonella spp.</i>	Absence (per 10 g)	Absence	USP 62
OTHER PROPERTIES			
Appearance	Red Viscous Oil	Conforms	Neptune IN-0901-10B
Odor	Light Shrimp Odor	Conforms	Neptune IN-0901-10B
Humidity	< 0.90 %	< 0.5 %	Neptune IN-0901-08
Viscosity @ 25°C	Report	646 cP	Neptune IN-0901-51
Residual solvent (Acetone) ³	Report	4.9 ppm	Neptune IN-0901-06
CONTAMINANTS^{2,4}			
Benzo(a)pyrene	≤ 2.0 ppb	< 2.0 ppb	AOCS Cd 21-91, LC-MSMS
Sum of dioxins and dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ)	≤ 3 ppt	0.584 ppt	GLS DF 100, HRMS
Sums of dioxins and furans (WHO-PCDD/F-TEQ)	< 1.75 ppt	0.365 ppt	EN 1948 modifier, GLS DF 100, HRMS
Sum of PCB28, PCB52, PCB101, PCB138, PCB153 and PCB180	< 200 ppb	1.99 ppb	Internal method, HRMS
Total PCBs (209 congeners)	≤ 0.09 ppm	0.002 ppm	Internal method, HRMS
Arsenic (inorganic)	< 0.1 ppm	< 0.005 ppm	Internal method, FIAS-AAS
Cadmium	< 0.1 ppm	< 0.010 ppm	AOAC 986.15 modified, ICP-MS
Mercury	< 0.1 ppm	< 0.010 ppm	AOAC 986.15 modified, ICP-MS
Lead	< 0.1 ppm	< 0.02 ppm	AOAC 986.15 modified, ICP-MS

Preservative free

¹Represents %AUC (i.e. %EPA/%Totalx100)

³Depending on delivery country; refer to internal specification.

²Analyses subcontracted

⁴Monitored quarterly

Verified by

Marie-Eve Gauthier
Quality Control Director



Approved by

Kossi Molley
Quality Assurance Director