

Product Specification

Product Description: Antarctica Krill Oil

Item Code: KOP40

Quality Parameters

Parameter	Specification	Method
Peroxide Value	<2 mEq/kg	AOCS Cd 8b-53
Ethanol	<0.5 %	AOCS Cg 4-94
Loss on Drying	<3.0 % w/w	AOCS Ca 2e-84
Viscosity @ 35 °C	600-1000 mPa*s	Internal Method

Active Ingredients(s) Per 1g (natural variation is expected)

Parameter	Specification	Method
C20:5n3-Eicosapentaenoic Acid (Area %)	Min. 15 %	AOCS Ce 1i-07
C22:6n3-Docosahexaenoic Acid (Area %)	Min. 9 %	AOCS Ce 1i-07
Total Omega 3 (Area %)	Min. 30 %	AOCS Ce 1i-07
C20:5n3-Eicosapentaenoic Acid (FA)	Min. 120 mg FA	AOCS Ce 1i-07
C22:6n3-Docosahexaenoic Acid (FA)	Min. 60 mg FA	AOCS CE 1i-07
Total Omega 3 (FA)	Min. 240 mg FA	AOCS CE 1i-07
Total Phospholipids	Min. 40 g/100g	31P NMR
Esterified Astaxanthin	Min. 300 ppm	HPLC

Contaminants and Heavy Metals

Parameter	Specification	Method
Arsenic Inorganic	<0.1 ppm	AOCS Ca 17-01
Cadmium	<0.1 ppm	AOCS CA 17-01
Lead	<0.1 ppm	AOCS CA 17-01
Mercury	<0.1 ppm	AOCS CA 17-01
Total PCB's (209 congeners)	<0.09 ppm	USEPA 1668A
Dioxin-Like PCB's	<3 pg/g(WHO-TEQ)	USEPA 1613B
Dioxin-Like PCB's, Dioxins and Furans Combined	<3 pg/gg Combined TEQ (WHO)	USEPA 1613B
Dioxins (PCDD/PCDF)	<1.75 pg WHO-PCDD/F-TEQ/g	USEPA 1613B
Ethoxyquin	Absent	AOCS 996.13

Microbial Limits

Parameter	Specification	Method
Total Plate Count	<1,000 CFU/g	USP<2021>
Yeast and Mold	<100 CFU/g	USP<2021>
Salmonella spp.	Absent /10g	USP<2022>
Escherichia Coli	Absent /10g	USP <2022>
Staphylococcus Aureus	Absent /10g	USP<2022>
Coliforms	Absent CFU/g	AOAC 991.14

Parameter	Claim	Assay	Methodology
Peroxide Value	<2 meq/kg	0.20	AOCS Cd 8-53
Ethanol	<0.8 %	0.33	GC
Viscosity @ 30°C	Report	1,200	Internal
Loss on Drying	<3.0 % w/w	1.26	AOCS Ca 2e-84

Contaminants and Heavy Metals

Arsenic Inorganic	< 0.1 ppm	< 0.1 ppm	AOCS Ca 17-01
Cadmium	< 0.1 ppm	< 0.1 ppm	AOCS Ca 17-01
Mercury	< 0.1 ppm	< 0.1 ppm	AOCS Ca 17-01
Lead	< 0.1 ppm	< 0.1 ppm	AOCS ca 17-01
PCB (209 congeners)	< 0.09ppm	< 0.09	USEPA 1613B
Dioxins, Furans and Dioxin-like PCBs	Max 2 pg/g(WHO-TEQ)	<2.0	USEPA 1613B
<u>Active Ingredient</u>			
Total Phospholipids	Min. 45g/100g	45.4	31P-NMR
Esterified Astaxanthin	Min. 400ppm	553	HPLC

Fatty Acid Composition (Natural Variation is expected for active claims)

Fatty Acid			
C20:5n3- Eicosapentaenoic acid	Min. 120mg	128.3	AOCS Ce 1b-89
C22:6n3- Docosahexaenoic acid	Min. 60mg	67.5	AOCS Ce 1b-89
Total Omega-3	Min. 240mg	249.4	AOCS Ce 1e-91
C20:5n3- Eicosapentaenoic acid	Min. 15%	17.6	AOCS Ce 1e-91
C22:6n3- Docosahexaenoic acid	Min. 9.0 %	9.4	AOCS Ce 1e-91
Total Omega-3	Min. 30%	34.8	AOCS Ce 1e-91
<u>Microbial Limits</u>			
Total Plate Count	< 1000 cfu/g	<1000	USP <2021>
Yeast and Mold	< 100 cfu/g	<100	USP <61>
Total Coliform	Absent	Negative	AOAC 991.14
Salmonella spp.	Absent	Negative	USP <2022>
Staphylococcus aureus	Absent	Negative	USP <2022>
Escherichia coli	Absent	Negative	USP <2022>
Ingredients Krill Oil			