



Organic Borage Oil

INCI: Borago Officinalis (Borage) Seed Oil
Product ID: ORGOILBOREXPREF20GLAEU742

Specifications

Analytical Details

Appearance:
Acid Value:
Peroxide Value:
Anisidine Value:
Totox Value:
Moisture:
Saponification Value:
Unsaponifiable Matter:
Refractive Index (20 °C):
Specific Gravity (20 °C):
Iodine Value:
Color (Gardner):

Methods

Organoleptic
ISO 660
ISO 3960
ISO 6885
Calculated
AOCS Ca2e:84(09)
ISO 3657
ISO 3596
ISO 6320
ISO 6883
ISO 3961
DIN 5033

Specifications

Clear Bright Yellow Oil
≤ 4.0 mg KOH/g
≤ 8.0 meq/kg
≤ 15.0
≤ 25.0
≤ 0.1%
185.0 - 195.0 mg KOH/g
≤ 1.5%
1.470 - 1.480
0.910 - 0.925 g/mL
130.0 - 150.0
≤ 12.0

Fatty Acid Profile

< C16:0:	ATM016A	≤ 0.3%
C16:0 Palmitic:	ATM016A	9.0 - 12.0%
C16:1 Palmitoleic:	ATM016A	≤ 0.6%
C18:0 Stearic:	ATM016A	3.0 - 5.5%
C18:1 Oleic:	ATM016A	15.0 - 20.0%
C18:1 Cis-Vaccenic:	ATM016A	≤ 2.0%
C18:2 Linoleic:	ATM016A	35.0 - 39.0%
C18:3 Alpha Linolenic:	ATM016A	≤ 0.5%
C18:3 Gamma Linolenic:	ATM016A	≥ 20.0%
C18:3 Gamma Linolenic:	ATM016A	≥ 185.0 mg/g as TG
C20:0 Arachidic:	ATM016A	≤ 0.5%
C20:1 Icosenoic:	ATM016A	3.8 - 4.4%
C22:1 Docosenoic:	ATM016A	2.3 - 2.8%
C24:1 Tetracosenoic:	ATM016A	1.3 - 1.8%
Others:	ATM016A	≤ 3.0%

Heavy Metals

Lead:	ICPMS	≤ 0.1 mg/kg
Cadmium:	ICPMS	≤ 0.05 mg/kg
Mercury:	ICPMS	≤ 0.05 mg/kg
Arsenic:	ICPMS	≤ 0.1 mg/kg

NATURAL SOURCING®

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Microbiological

Total Viable Count:	TP/006	≤ 1000 cfu/g
Yeast & Mold:	TP/008	≤ 100 cfu/mL
E. Coli:	TP/016	Not Detected
Salmonella:	TP/018	Not Detected / 25g
Staphylococcus Aureus:	TP/012	Not Detected

Persistent Organic Pollutants

Benzo(a)pyrene:	QMP_504_VW-401	≤ 1.0 µg/kg
Sum of B(a)P, B(a)A, B(b)F, Chrysene:	QMP_504_VW-401	≤ 10.0 µg/kg
Sum of Dioxins and Furans (WHO-PCDD/ F-TEQ/g):	GLS DF 110, GC-MS/MS	≤ 0.75 pg/g
Sum of Dioxins, Furans, Dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ/g):	GLS DF 110, GC-MS/MS	≤ 1.25 pg/g
PCB's (Sum 28, 52, 101, 138, 153, 180) (Total 6 DIN-PCB):	GLS DF 110, GC-MS/MS	≤ 40.0 ng/g
Pyrrrolizidine Alkaloids:	CON-PV-01326 LC-MS/MS	≤ 1.0 µg/kg

Phytosterols and Related Compounds

Brassicasterol:	ATM019	≤ 0.3%
24-Methylene Cholesterol:	ATM019	9.0 - 20.0%
Campesterol:	ATM019	26.0 - 32.0%
Stigmasterol:	ATM019	≤ 2.2%
β-Sitosterol:	ATM019	20.0 - 29.0%
Sitostanol:	ATM019	≤ 0.6%
Δ-5-Avenasterol:	ATM019	6.0 - 24.0%
Δ-7-Stigmasterol:	ATM019	≤ 0.8%
Δ-7-Avenasterol:	ATM019	≤ 1.0%

Shelf Life: 2 Years

Storage: Store in a cool, dry place. Avoid light and heat. Keep product airtight. Once opened, cap with nitrogen.

Note: Pesticide residues are random batch tested annually and are in accordance with European Food Law.

Date: 07/22/2024

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