



NATURAL SOURCING™

Specialists in Cosmeceutical Ingredients

Borage Oil (20% GLA)

Expeller Pressed and Refined

INCI: Borago Officinalis (Borage) Oil

Product ID: OILBOREXPREF20GLAEU742

Specifications

Analytical Details

Appearance:

Color Gardner:

Moisture:

Acid Value:

Peroxide Value:

Anisidine Value:

Specific Gravity @ 20°C:

Refractive Index @ 20°C:

Iodine Value:

Saponification Value:

Unsaponifiables:

Totox Value:

Specifications

Clear, bright yellow to greenish oil

12 Max

0.1% Max

4.0 mg KOH/g Max

8.0 meq/kg Max

15.0

0.910-0.925 g/ml

1.470-1.480

130-150

185-195 mg KOH/g

1.5% Max

25.0 Max

Free Fatty Acid Profile

Saturated fatty acids of chain length less than C16:

C16:0 Palmitic:

C16:1 Palmitoleic:

C18:0 Stearic:

C18:1 Oleic:

C18:2 Linoleic:

C18:3 (α Linolenic):

C18:3 (γ-Linolenic):

C18:3 (γ-Linolenic):

C20:0 Arachidic:

C20:1 Icosenoic:

C22:1 Docosenoic:

C24:1 Tetracosenoic:

%

0.3

9.0-12.0

0.6% Max

3.0-5.5

15.0-20.0

35.0-39.0

.5% Max

20% Min

185.0 mg/g as TG Min

.5 Max

3.9-4.3

2.4-2.7

1.4-1.7

Others

Brassicasterol:

24-Methylene cholesterol:

Campesterol:

Stigmasterol:

B-sitosterol:

Sitostanol:

Δ-5-avenasterol:

Δ-7-stigmastenol:

Δ-7-avenasterol:

0.3 Max

9.0-20.0

26.0-32.0

2.2

20.0-29.0

.60 Max

6.0-24.0

.80 Max

1.0 Max

Natural Sourcing, LLC • 341 Christian Street, Oxford, CT 06478

Phone: (203) 702-2500 • Toll Free: (800) 340-0080 • Fax: (203) 702-2501 • info@naturalsourcing.com

www.naturalsourcing.com



NATURAL SOURCING™

Specialists in Cosmeceutical Ingredients

Heavy Metals Analysis

Lead (Pb):	0.10 ppm Max
Arsenic (As):	0.10 ppm Max
Cadmium (Cd):	0.05 ppm Max
Mercury (Hg):	0.05 ppm Max
Benzo (a) Pyrene:	1.0 ppb Max
Sum of B(a)P, B(a)A, B(b)F, chrysene:	10 ppb Max
Sum of dioxins and furans (WHO-PCDD/F-TEQ/g):	0.75 ppt Max
Sum of dioxins, furans, dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ/g):	1.25 ppt Max
Pyrrolizidine Alkaloids:	1.0 ppb Max
PCB's (Sum 28, 52, 101, 138, 153, 180):	40.0 ppb Max

Microbiological Profile

Total Plate Count:	< 1000 cfu/g
Yeast & Mold:	< 100 cfu/g
E. Coli, Salmonella, S. Aureus:	Not Detected

Storage: Store in a cool, dry place, away from light and heat. Nitrogen blanketing recommended.

Shelf Life: 2 Years with Proper Storage

Date: 3/7/2017

Disclaimer: All information, appearing herein on our products is based upon data that are believed to be reliable. However, it is the user's responsibility to determine the suitability of the product before use. Since the actual use of the product is beyond our control, no guarantee, express or implied, is made by Natural Sourcing of the product nor does Natural Sourcing assume any liability arising out of use, by others, of the product referred to herein.

Natural Sourcing, LLC • 341 Christian Street, Oxford, CT 06478
Phone: (203) 702-2500 • Toll Free: (800) 340-0080 • Fax: (203) 702-2501 • info@naturalsourcing.com

www.naturalsourcing.com