



BORAGE OIL Refined min. 20% GLA

PRODUCT DATA SHEET



BORAGE is an annual herb originated in Syria, but naturalized throughout the Mediterranean region, most of Europe and North Africa. In the middle ages, borage leaves were commonly brewed into a medicinal tea.

BORAGE OIL Refined is extracted from the seeds by cold pressing and then refined.

BORAGE OIL offers ease of spreading, great penetration and significant moisture retention combined with its high nourishing properties. It is not only very soothing and softening to the skin, but also helps to reduce the redness so often experienced with very sensitive skins.

BORAGE OIL Refined contains up to 20 % of an essential fatty acid called gamma-Linolenic acid (GLA). Researchers have discovered that eczema may be linked to a deficiency of GLA. The body metabolizes GLA into hormone-like compounds that regulate inflammation and allergic response.

One of the most powerful demonstrations of the benefits to the skin of topically applied **BORAGE OIL** is a clinical study done to 48 infants suffering from severe infantile seborrheic dermatitis (dry scales and crusts). The infants were treated with topically **BORAGE OIL** and the condition cleared within two weeks. This result indicated that the **BORAGE OIL** was effectively absorbed through the skin and became available throughout the body¹.

TECHNICAL DATA

Appearance:	Clear bright yellow oil.
Acidity index:	≤ 3.0 mg KOH/g
Peroxide value:	≤ 3.0 meq O ₂ /kg
Specific gravity:	0.90 - 0.93 g/ml

BORAGE OIL Refined min. 20% GLA

Fatty Acid	Composition
Linoleic acid ($\Omega 6$)	35 - 42 %
γ -Linolenic acid ($\Omega 6$)	min. 20 %
Oleic acid	14 - 20 %
Palmitic acid	8 - 12 %

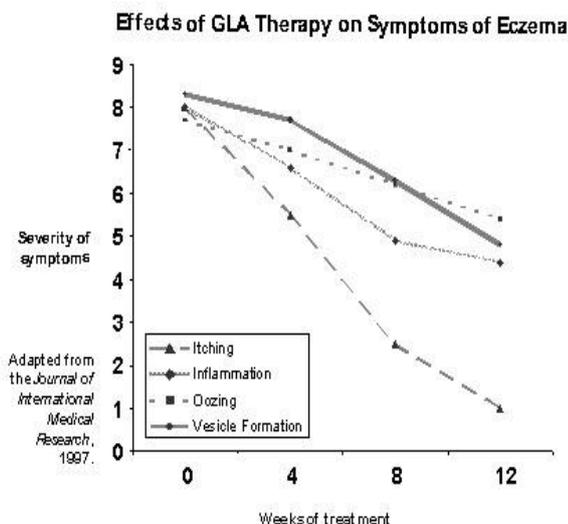
APPLICATION



BORAGE OIL Refined may be applied directly to the skin and hair. It may also be easily incorporated as an active ingredient or an ideal carrier in skin and hair care products. Recommended dosage is between 3 and 10 %.

BORAGE OIL Refined is of great use on problem skins, especially with acne, pimples and blemishes. It can also help treat rosacea by reducing inflammation, controlling the cells metabolism by producing prostaglandins, which stimulate the contraction of blood vessels. The tannins contained in the oil have a slight tightening effect on the skin.

BORAGE OIL can be used directly as massage oil.



Researchers at the University of Italy conducted a study that documented the dramatic effects that **BORAGE OIL** can have on patients with atopic eczema.

The accompanying graph illustrates the results of this study. Researchers have observed that the effects of GLA may continue several weeks or months after stopping the supplementation.

Oral dose of 548 mg/day, for 12 weeks.

INCI Name: Borago Officinalis Seed Oil.

1 Tolleson, A., and Frithz, A. 1993. *Borage oil: an effective new treatment for infantile seborrheic dermatitis*. Brit. J. Dermatol. 129:95.

BORAGE OIL REFINED 20 % GLA**CODE** 008038 **SPECIFICATION** **Nº** 00803802

PARAMETERS	SPECIFICATIONS	EDITION - 03/02/2009
Appearance	A clear pale yellowish oil	
Peroxide Value (meq/kg oil)	max. 3.0	
Acid value (mg KOH /g)	max. 3.0	
Saponification value	185 - 195	
CROMATOGRAPHY	FATTY ACID COMPOSITION	
Palmitic	8.0 - 12.0 %	
Stearic	2.0 - 5.0 %	
Oleic	14.0 - 20.0 %	
Linoleic	35.0 - 42.0 %	
Gamma - Linolenic	min. 20.0 %	
Gadoleic	3.0 - 5.0 %	

PACKING**REMARKS**

THE OIL SHOULD BE STORED AT A COOL AND DRY PLACE , PROTECTED FROM LIGHT.