

## TECHNICAL DATA SHEET

# Borage Oil Powder

## GLA 9% CWD

### Chemical Properties

Latin Name: *Borago officinalis*

### Description

Borage (*Borago officinalis*) is well known as one of the richest sources of essential fatty acids. Its seed oil is the richest source of  $\gamma$ -linolenic acid (GLA), around 20%, and it is also a fantastic source for vitamins and minerals. Borage Oil Powder CWD is cold water dispersible powder form of Borage oil, produced by microencapsulation, with GLA Min 9%. No synthetic antioxidant (BHA, BHT) is added.

### Solubility

It is dispersible in water.

### Specification

Item	Specification	Test Method
Appearance	White to off white free or light yellow flowing powder	Organoleptic
Odor & Taste	Characteristic	Organoleptic
Total fats (% , w/w)	Min 50.0%	In-house
$\gamma$ -Linolenic Acid	Min 9.0%	In-house
Acid value (KOH)	Max 1.0mg/g	In-house
Peroxide value	Max 0.13g/100g	GB5009.227-2016
Loss on drying	Max 5.0%	In-house
Moisture	Max 5.0g/100g	In-house
Ash	Max 4.0g/100g	In-house
Bulk density	0.4-0.6g/ml	In-house
Particle Size	90% through 80 mesh	In-house
Pb	Max 0.1ppm	In-house
As	Max 0.1ppm	In-house
Hg	Max 0.1ppm	In-house
Cd	Max 1.0ppm	In-house
Heavy Metals	Max 10ppm	In-house
Benzpyrene	Max 10ppb	In-house
Antioxidant (BHA, BHT)	Max 200ppb	In-house
Aflatoxin B1	Max 10ppb	In-house
Total aerobic count	Max 1000cfu/g	In-house
Yeast & Mould	Max 50cfu/g	In-house

Coliform	Max 10cfu/g	In-house
<i>E. Coli</i>	Negative	In-house
<i>Salmonella</i>	Negative	In-house

## Ingredients

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Borage oil	Min 50.0%
Sodium caseinate	1.0%-15.0%
Oligo maltulose	20.0%-40.0%
Single and double glyceride	Max 2.0%
K <sub>2</sub> HPO <sub>4</sub> • 3H <sub>2</sub> O	Max 1.0%
Food grade silicon dioxide	Max 1.5%

## Labeling

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In the United States and the European Union: Borage Oil Powder

## Applications

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Borage Oil can be widely used in solid food, milk powder, and instant beverage.

## Safety

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This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

## Handling recommendations

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Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a Handling: Keep away from heat, sparks and flame. Avoid contact with eyes, and skin. Wear gloves and safety glasses.

## Packaging, Storage & Shelf Life

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Package	20kg/drum; or according to customers' requirements.
Storage	Store at ambient temperature, under dry conditions, protected from heat, light, moisture and oxygen and in tightly closed containers.
Shelf Life	24 months if sealed and stored properly.