



Organic Calendula Oil CLR

Product Specification

Characteristics

Organic Calendula Oil CLR contains the lipid-soluble constituents of organic calendula blossoms in an organic vegetable oil medium. The calendula blossoms used are gently disintegrated using a special technique and extracted with organic soybean oil. Both the organic calendula blossoms and the organic soybean oil comply to Regulation (EC) No. 834/2007 on organic production of agricultural products and indications referring thereto on agricultural products and foodstuffs. Natural tocopherol is used to stabilize Organic Calendula Oil CLR against rancidity.

INCI Name	CAS No.	EINECS No.
Glycine Soja (Soybean) Oil (EU Name: Glycine Soja Oil)	8001-22-7	232-274-4
Calendula Officinalis Flower Extract (EU Name: Calendula Officinalis Extract)	84776-23-8	283-949-5
Tocopherol	1406-18-4	215-798-8

Ecocert status and certification characteristics

Raw material certified by ECOCERT Greenlife according to the Ecocert Standard for Natural and Organic Cosmetics available at <http://cosmetics.ecocert.com>.

100 % of the total ingredients are from natural origin

99.9 % of the total ingredients are from organic farming

COSMOS status and certification characteristics

Certified as 99.91% organic by ECOCERT Greenlife according to COSMOS Standard available at <http://cosmetics.ecocert.com>.



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Analytical Data

Ratio of the extract to actual drug: 10 parts of Calendula Oil correspond to 1 part of calendula blossoms.

Refractive index n_D^{20}	1.473 – 1.475
Density 20 °C	0.918 – 0.922 g/ml
Acid value	< 2,0
Color value (Gardner)	6 – 12
Iodine value (Hanus)	120 – 140
Colony forming units	
Total aerobic microbial count (TAMC)	< 100/ml
Total combined yeasts/moulds count (TYMC)	< 10/ml
	in absence of non conforming organisms

Physiological Safety

All physiological safety tests have been conducted with Calendula Oil CLR, which has the same chemical composition as Calendula Oil Organic CLR and differs only in the origin of raw material.

Acute oral toxicity

LD₅₀ oral: > 20 ml per kg bodyweight (rat).

Calendula Oil CLR is hence to be designated as non-toxic.

Eye irritation potential

Calendula Oil CLR has undergone the Draize test and there was found there is no objection to the application of Calendula Oil CLR in the vicinity of the eyes.

Skin tolerance

An O/W cream containing 10% Calendula Oil CLR was applied on 50 volunteers for 48 hours in a patch test. The score concerning erythema, fissures and scaling was always zero. Calendula Oil CLR can be classified as harmless as regards the possibility of skin irritation.

Mode of action

Organic Calendula Oil CLR protects dry, scaly, and stressed skin and is thus suitable for the protective care of sensitive skin, e.g., babies' skin.



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Application

As fatty oil extract from calendula blossoms with properties generally beneficial to the skin, Organic Calendula Oil CLR is suitable for preventive care of normal, dry or sensitive skin (including baby skin).

Preparations with Organic Calendula Oil CLR are especially suitable for application to rough, brittle, chapped or otherwise slightly damaged skin (worn hands, sunburn).

It can be used in emulsified and oily skin care products.

Dosage

3.0 % - 10.0 %

Appearance/Odor

Reddish-yellow oil. Herbal odor.

Solubility

Soluble in fats and oils.

Processing

Due to its content of saturated fatty acids, Organic Calendula Oil CLR produces turbidity at temperatures below approx. 20 °C, but yields completely clear solutions again if warmed to temperatures above.

Organic Calendula Oil CLR tolerates short heating to the temperatures required for the manufacture of emulsified preparations. Cosmetics with Organic Calendula Oil CLR have a yellowish (skin oils) to ivory (creams, liquid emulsions) tinge.

Cosmetics with Organic Calendula Oil CLR can be perfumed without difficulty.

Storage

Storage at cellar to room temperature (15 - 25° C), in well closed containers, protected from light. Organic Calendula Oil CLR packs should be fully used once opened. Under these conditions the product is stable for at least 1 year.

Packing

Pack size: 5 kg; 25 kg

Sample size: 50 g