

Certificate of Analysis









Marigold Flower CO2-to extract (organic)

Art. No. CO2-CALE-05 | CO2-CALE-10

batch no. : 722404, lab no. 34816

production : November 2022 - Retest: November 2027

raw material : Calendula officinalis - Flowers, dried, from organic farming

country of origin of raw material : Germany, Egypt country of origin of product : Germany

D/E - ratio : 13 - 20 kg raw material yield 1 kg product.

Product contains : no carriers and excipients

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feature	reference	result	
Appearance:	Dark red to brown color, waxy solid	meets	
	at room temperature; liquid at 40°C		
Fragrance/Taste:	characteristic hay-like fragrance	meets	

Analytical Check

feature	method	limits valu	ie	unit
Content of essential oil	21.006.01, Distillation gravimetric	n.s.	1,6	% (g/100g)
Sum of Carotenoides (calc. as ß-Carotene)	21.008.05, Spectrometer	0,7-1,4	0,83	%
Content of Faradiol ester	21.041.05, HLPC	17-25	22,2	%
Sum of Sterols (calc. as Sitosterol Identified Triterpene alcohols: Taraxasterols and Amyrins (calc. as Sitosterol)	21.207.01, GCMS 21.207.01, GCMS	n.s. n.s.	2,5 8,7	% %
Pesticides Sum of Benzo(a)pyrene Benz(a)anthracene Benzo(b)fluoranthene and Chrysene TEQ (WHO) for WHO-PCB on the whole product PCB's (Sum of PCB	external analysis external analysis external analyses external analysis	EC No. 396/2005 EC No. 1881/2006 EC no. 1881/2006 EC No. 1881/2006	meets (0,139)	ppb pg/g ng/g
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n.s. = not specified n.d. = not detected

The product meets the current version of the analytical (018.002_06_AS) and of the general (018.002_09_S) specification.

Date of analysis: 2022.11.25

This computerized CoA has digital signature validated by MANUFACTURER QC.

The data in this report of analysis have been determined carefully and to the best of our knowledge. Depending on transport and storage conditions the indicated data can be subject to certain changes which are outside of our influence. Hence the report has not the meaning of a guaranty in the legal sense and does not dispense the customer from making his own quality control before using the product. For further product-relevant substances, see IFRA list and cosmetic allergen list.