

Nature's Gift®

Balancing Body, Mind and Spirit
with Pure Essential Oils Since 1995

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Certificate of Analysis

Hops CO₂ Total

Batch #DE-59337

lab no. 34924

production: December 2022

retest: December 2027

raw material:

Humulus lupulus - Flores = Hop cones, dried

country of origin of raw material: Germany, origin of sunflower oil: Germany

country of origin of product: Germany

D/E - ratio: 3,0 - 4,0 kg raw material yield 1 kg product.

Product contains: about 35 % Sunflower oil (organic)

Sensory Check

feature	reference	result
Appearance:	Green-brown viscous extract at room temperature	meets
Odour:	weak typical smell	meets

Analytical Check

feature	method	limits	value	unit
Content of essential oil	21.006.01, Distillation, gravimetric	< 2	1,8	% (g/ 100g)
Cohumulone	21.126.03, HPLC	n.s.	8,1	%
n-+ Adhumulone	21.126.03, HPLC	n.s.	22,7	%
Sum of Humulones (alpha acids)	21.126.03, HPLC	30 - 40	30,8	%
Colupulone	21.126.03, HPLC	n.s.	7,5	%
n-+ Adlupulone	21.126.03, HPLC	n.s.	11,2	%
Sum of Lupulones (beta acids)	21.126.03, HPLC	10 - 20	18,6	%
Sum of alpha and beta acids	21.126.03, HPLC	49 - 51	49,5	%
Content of water	21.220.01, Karl Fischer method	n.s.	0,25	%

n.s. = not specified

n.d. = not detected

The product meets the current version of the analytical (081.013_03_AS) and of the general (081.013_08_S) specification. date of analysis: 2022.12.14

This computerized CoA has digital signature validated by Nature's Gift.

Digitally signed by
Robin Denmark
Reason: Quality
Control Date:
2022.12.14 12:
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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.