



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

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Certificate of Analysis: Hops CO2 Extract, *Humulus lupulus*, dried hop cones grown and extracted in Germany.

Batch No: GE-751114

Type No: 081.013

Lab No: 18596

Production: April 2015 retest: April 2020

Date of Analysis: 04.29.2015

The product meets specifications No: 16.377.01/66.302.01

D/E - ratio: 4,0 - 5,3 kg raw material yield 1 kg product.

Sensory Check

Feature	Reference	Result
Appearance:	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	0,69	% (g/ 100g)
Cohumulone	21.126.01, HPLC	n.s.	8,6	%
n-+ Adhumulone	21.126.01, HPLC	n.s.	23,4	%
Sum of Humulones (alpha acids)	21.126.01, HPLC	30 - 40	32,0	%
Colupulone	21.126.01, HPLC	n.s.	7,7	%
n-+ Adlupulone	21.126.01, HPLC	n.s.	9,9	%
Sum of Lupulones (beta acids)	21.126.01, HPLC	10 - 20	17,7	%
Sum of alpha and beta acids	21.126.01, HPLC	49 - 51	49,7	%
Content of water	Karl Fischer Titr.	n.s.	0,25	%

n.s. = not specified n.d. = not detected

Storage conditions: Store in a cool, dry place.

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