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

Batch No: GE-141119

Lab No: 16478

Type No: 081.013

Production: April 2014, Retest: April 2019

Date of Analysis: 04.14.2014

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	1,2	% (g/ 100g)
Cohumulone	21.126.01, HPLC	n.s.	9,1	%
n-+ Adhumulone	21.126.01, HPLC	n.s.	25,6	%
Sum of Humulones (alpha acids)	21.126.01, HPLC	30 - 40	34,7	%
Colupulone	21.126.01, HPLC	n.s.	7,3	%
n-+ Adlupulone	21.126.01, HPLC	n.s.	9,0	%
Sum of Lupulones (beta acids)	21.126.01, HPLC	10 - 20	16,2	%
Sum of alpha and beta acids	21.126.01, HPLC	49 - 51	50,9	%
Content of water	Karl Fischer Titr.	n.s.	0,37	%

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