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Certificate of Analysis

Hops CO₂ *Humulus lupulus*

Batch # GE-871014

Grown, dried and CO₂ extracted in Germany

Lab No: 22406
Type No : 081.013
Raw Material: *Humulus lupulus – dried cones*
Country of Origin raw material: Germany
D/E – ratio: 4.0 – 5.3 kg raw material yields 1kg product
Product contains: about 35% sunflower oil (organic)
Production: February 2017
Retest: February 2022
Storage: Store in a cool, dry place and exclusion of light

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			% (g/100g)
Cohumulone	21.126.03, HPLC	n.s.	8,2	%
n+ Adhumulone	21.126.03, HPLC	n.s.	25,3	%
Sum of Humulones (alpha acids)	21.126.03, HPLC	30 - 40	33,6	%
Colupulone.	21.126.03, HPLC	n.s.	6,7	%
n+ Adlupulone	21.126.03, HPLC	n.s.	9,7	%
Sum of Lupulones (beta acids)	21.126.03, HPLC	10 - 20	16,4	%
Sum of alpha and beta acids	21.126.03, HPLC	49 - 51	50,0	%
Content of water	21.220.01, Karl Fischer method	n.s.	1,41	%

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

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 guarantee in the legal sense and does not dispense the customer from making his own quality control before using the product.

The product meets specifications no. 16.377.02/66.302.02; date of analysis: 2017.02.28