



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

www.naturesgift.com

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## Certificate of Analysis

### Hops CO2-total flavor reduced, standardized Batch #GE-58971

production: June 2019                      retest: June 2024  
raw material:                                  *Humulus lupulus* - Flores = Hop cones, dried  
lab no.    27538  
country of origin of raw material: Germany  
country of origin of product:              Germany  
D/E - ratio:                                      4,0 - 5,3 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	1,3 % (g/ 100g)
Cohumulone	21.126.03, HPLC	n.s.	12,1 %
n-+ Adhumulone	21.126.03, HPLC	n.s.	20,3 %
Sum of Humulones (alpha acids)	21.126.03, HPLC	30 - 40	32,3 %
Colupulone	21.126.03, HPLC	n.s.	9,6 %
n-+ Adlupulone	21.126.03, HPLC	n.s.	8,0 %
Sum of Lupulones (beta acids)	21.126.03, HPLC	10 - 20	17,5 %
Sum of alpha and beta acids	21.126.03, HPLC	49 - 51	49,9 %
Content of water	21.220.01, Karl Fischer method	n.s.	0,46 %

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

Storage conditions: Store in a cool, dry place!

Digitally signed by Anja Cawelius  
Reason: Quality Control  
Date: 2019.07.05 15:51:00 +0200

The product meets specifications no. 16.377.02/66.302.05; date of analysis: 2019.07.05  
This computerized CoA has digital signature verified by Nature's Gift.

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.