



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

www.naturesgift.com

Certificate of Analysis: Hops CO₂, *Humulus lupulus*, hop cones from Germany, extracted in Germany.

Batch No: GE-851415

Lab No: 19934

Type No: 081.013, flavor reduced, standardized

Production: December 2015 Retest: December 2020

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

Sensory Check

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

Analytical Check

feature	method	limits	value/unit
Content of essential oil 21.006.01, Distillation, gravimetric		< 2	0,88 % (g/ 100g)
Cohumulone	21.126.01, HPLC	n.s.	9,3 %
n-+ Adhumulone	21.126.01, HPLC	n.s.	21,7 %
Sum of Humulones (alpha acids)	21.126.01, HPLC	30 - 40	31,1 %
Colupulone	21.126.01, HPLC	n.s.	9,3 %
n-+ Adlupulone	21.126.01, HPLC	n.s.	9,7 %
Sum of Lupulones (beta acids)	21.126.01, HPLC	10 - 20	19,0 %
Sum of alpha and beta acids	21.126.01, HPLC	49 - 51	50,0 %
Content of water	Karl Fischer Titr.	n.s.	0,58 %

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