



## Certificate of Analysis

### Frankincense Serrata CO2

Batch # GE 671113

production: April 2017                      retest: April 2022  
raw material:                                      *Boswellia serrata* - Resin  
country of origin of rawmaterial: India  
country of origin of product:              Germany  
D/E - ratio:                                        14 - 20 kg raw material yield 1 kg product.

### Sensory Check

feature	reference	result
Appearance:	Light-yellow to orange, liquid, clear oil	meets

### Analytical Check

feature	method	limits	value unit
Content of essential oil	21.006.01, Distillation, gravimetric	70 - 90	87,6 % (g/ 100g)
Composition of the volatile compounds:	GCFID, 100 % Method		
alpha Thujene	GC, olibanum.met	40 - 60	46,5 %
alpha Pinene	GC, olibanum.met	3 - 15	4,1 %
Sabinene	GC, olibanum.met	n.s.	3,4 %
delta 3-Carene	GC, olibanum.met	n.s.	1,9 %
p-Cymene	GC, olibanum.met	n.s.	2,0 %
Limonene	GC, olibanum.met	n.s.	2,0 %
Octyl acetate	GC, olibanum.met	n.s.	n.d. %
Methyl chavicol (Estragole)	GC, olibanum.met	n.s.	3,0 %
beta Bourbonene	GC, olibanum.met	n.s.	1,1 %
Serratol / Incensol	GC, olibanum.met	n.s.	12,5 %
Incensole acetate	GC, olibanum.met	n.s.	n.d. %
GC fingerprint	GC, olibanum.met	meets	meets
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,470 - 1,490	1,4776
Density (20°C)	21.024.03, Pycnometer	0,880 - 0,920	0,883 g/cm <sup>3</sup>
Monitoring of substances*:			
beta Boswellic acids	HPLC	n.s.	0,30 %

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

\*Substances to be monitored according to "Arrêté du Juin 2014" laying down the list of plants, authorized in food supplements



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#### Analytical Check

feature	method	limits	value	unit
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Storage conditions: Store in a cool, dry place!

The product meets specifications no. 16.125.12/66.052.09; date of analysis: 2017.04.25

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.