

Certificate of Analysis

Frankincense Serrata CO2-se

Batch #DE-59294

production: March 2022 retest: March 2027
raw material: *Boswellia serrata* - Resin
country of origin of raw material:
country of origin of product: India
D/E - ratio: Germany
8,0 - 12,5 kg raw material yield 1 kg product.
Product contains: no carriers and excipients

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 | 88,7 | % (g/ 100g) |
| Composition of the volatile compounds: | GCMS, 100 % Method | | | |
| alpha Thujene | 21.209.02, GC | 40 - 60 | 49,9 | % |
| alpha Pinene | 21.209.02, GC | 3 - 15 | 5,7 | % |
| Sabinene | 21.209.02, GC | n.s. | 4,4 | % |
| delta 3-Carene | 21.209.02, GC | n.s. | 0,42 | % |
| p-Cymene | 21.209.02, GC | n.s. | 1,2 | % |
| Limonene | 21.209.02, GC | n.s. | 0,98 | % |
| Octyl acetate | 21.209.02, GC | n.s. | n.d. | % |
| Estragole (= Methyl chavicol) | 21.209.02, GC | n.s. | 1,8 | % |
| beta Bourbonene | 21.209.02, GC | n.s. | 0,65 | % |
| Serratol / Incensole | 21.209.02, GC | n.s. | 16,0 | % |
| Incensole acetate | 21.209.02, GC | n.s. | n.d. | % |
| GC fingerprint | 21.209.02, GC | Standard | meets | |
| Refractive index (20°C) | 21.271.01, Digital Refractometer | 1,470 - 1,490 | 1,4773 | |
| Density (20°C) | 21.024.03, Pycnometer | 0,880 - 0,920 | 0,8810 | g/cm³ |
| Monitoring of substances*: beta Boswellic acid | HPLC | n.s. | 0,16 | % |
| Estragol in extract | GCMS, quantitative | n.s. | 2,3 | % |
| Methyleugenol in extract | GCMS, quantitative | n.s. | 0,55 | % |

n.s. = not specified

n.d. = not detected

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The product meets the current version of the analytical (038.001_13_AS) and of the general (038.001_12_S) specification.

date of analysis: 2022.03.29

This computerized CoA has digital signature validated by Nature's Gift.

Digitally signed by Anja
Cawellius
Reason: Quality control
Date: 2022.11.23 11:
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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. For further product-relevant substances, see IFRA list and cosmetic allergen list.