



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

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Certificate of Analysis

Galbanum CO₂ Select
Ferula galbaniflua

Batch # IR-471325

Lab No: 23411
Type No : 030.001
Raw Material: *Ferula galbaniflua* – Resin
Country of Origin, raw material: Iran
Country of origin of product: Germany
D/E – ratio: 4,0 - 5,0 kg raw material yields 1kg product
Production: Aug 2017
Retest: Aug 2022
Storage: Store in a cool, dry place and exclusion of light

Sensory Check

Feature	Reference	Result
Appearance:	yellow clear liquid	meets
Odour:	strong green-balsamic odor	meets

Analytical Check

Feature	Method	Limits	Value	Unit
Content of essential oil	21.006.01, distillation	75 - 95	78,9	% (g/ 100g)
Composition of the volatile compounds:	GC, 100 % method			%
alpha Pinene	GC, carot.met	n.s.	9,8	%
beta Pinene	GC, carot.met	35-55	37,5	%
Myrcene	GC, carot.met	n.s.	0,97	%
delta 3-Carene	GC, carot.met	n.s.	6,2	%
Limonene	GC, carot.met	n.s.	0,92	%
Phellandrene	GC, carot.met	n.s.	0,45	%
Fenchyl acetate	GC, carot.met	n.s.	1,7	%
Guaiol	GC, carot.met	n.s.	2,8	%

316 Old Hickory Blvd East, Madison TN 37115
tel (615) 612-4270 fax (615) 860-9171
orderdesk@naturesgift.com

9/18/2017



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Eudesmol (alpha + beta)	GC, carot.met	n.s.	2,9	%
Bulneso	GC, carot.met	n.s.	3,2	%
Undeca-1,3,5-trienes (Galbanoles)	GC, carot.met	n.s.	0,68	%
Cyclopentadecane	GC, carot.met	n.s.	n.d.	%
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,4855 - 1,4895	1,4875	%
Density (20°C)	21.024.03, Pycnometer	0,90 - 0,92	0,9141	g/cm ³

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. 16.412.03/66.122.07; date of analysis: 2017.08.28