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Certificate of Analysis: Galbanum CO2 Extract, *Ferula galbanifula*, resin from Iran, extracted in Germany.

Batch No. IR-331005

Lab No. 14187.

raw material: *Ferula galbaniflua* - Resin

country of origin of raw material: Iran

country of origin of product: Germany

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

analytical results:

feature	method	limits	value unit
Content of essential oil	21.006.01, Distillation, gravimetric	75 - 95	83,9 % (g/ 100g)
Composition of the volatile compounds in extract:	GC, 100 % Method		
alpha Pinene	GC, galbanum.met	n.s.	10,7 %
beta Pinene	GC, galbanum.met	40 - 60	47,5 %
Myrcene	GC, galbanum.met	n.s.	2,2 %
delta 3-Carene	GC, galbanum.met	n.s.	6,7 %
Limonene	GC, galbanum.met	n.s.	0,86 %
Phellandrene	GC, galbanum.met	n.s.	0,75 %
Fenchyl acetate	GC, galbanum.met	n.s.	1,2 %
Guaiol	GC, galbanum.met	n.s.	2,1 %
Eudesmol beta	GC, galbanum.met	n.s.	0,76 %
Bulnesol	GC, galbanum.met	n.s.	2,4 %
Refractive index (20°C)	Abbe-Refractometer	1,4855 - 1,4895	1,4880
Density (20°C)	21.024.02, Pycnometer	0,89 - 0,91	0,9065 g/cm ³

n.s. = not specified

n.d. = not detected