



NHR ORGANIC OILS
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Certificate of Analysis & Gas Chromatography **Organic Galbanum Essential Oil** *(Ferula galbaniflua)*

Botanical Name: Ferula galbaniflua Boiss.
Commercial Name: Organic Galbanum
Batch Number: 270226-1
Geographical Origin: Iran

Physical and Chemical Data:

	Standards	Results of analysis
Appearance	Liquid	Conform
Colour	Colourless to pale yellow	Conform
Odour	Balsamic, turpentine-like	Conform
Relative Density at 20°C	0.830 to 0.890	0.8900
Refractive Index at 20°C	1.474 to 1.485	1.4810
Optical Rotation	+7° to +20°	+20.00°
Flash Point	+40°C to +50°C	+43°C

Table of Components

Components	Contents
Toluene	0,01%
Alpha-thujene	0,53%
Alpha-pinene	9,67%
Camphene	0,14%
Sabinene	0,43%
Beta-pinene	40,44%
Myrcene	1,98%
Phellandrene	0,08%
Delta-3-carene	8,47%
Cymene	0,50%
Limonene	9,26%
Trans-alpha-ocimene	0,50%
Trans-beta-ocimene	0,18%
Alpha-terpinolene	0,61%
Trans-pinocarveol	0,58%
Cis-verbenol	0,19%
Pinocarvone	0,40%
1,3,5-Undecatriene, (E,Z)	1,27%

1,3,5-Undecatriene, (E,E)	0,14%
Myrtenal	0,42%
Myrtenol	0,29%
Fenchyl Acetate	2,47%
Carvacrol Methyl Ether	0,14%
Bornyl Acetate	0,24%
Car-3-en-2-one	0,25%
Alpha-terpinene	1,19%
Cyclosativene	0,40%
Ylangene	0,34%
Alpha-copaene	0,27%
Alpha-guaiene	0,23%
Beta-elemene	0,19%
Beta-funebrene	0,29%
Caryophyllene	0,37%
Aromadendrene	0,30%
Valencene	0,22%
Gamma-elemene	0,16%
Cis-alpha-bisabolene	0,80%
3,7-Guaiadiene	0,19%
Alpha-humulene	0,47%
Acoradiene	0,17%
Beta-cubebene	0,47%
Gamma-murolene	0,25%
Germacrene D	0,61%
Beta-selinene	0,39%
Gamma-gurjunene	0,21%
Alpha-selinene	0,14%
Dihydro-beta-agarofuran	0,32%
Gamma-cadinene	0,52%
Delta-cadinene	0,59%
Selina-3,7(11)-diene	0,14%
Germacrene B	1,86%
Beta-humulene	0,36%
Junenol	0,39%
Guaiol	2,48%
Viridiflorol	0,28%
Gamma-eudesmol	0,60%
Beta-maaliene	0,17%
Tau-cadinol	0,50%
Beta-selinenol	0,78%
Eudesmol	0,61%
Bulnesol	1,67%
Alpha-bisabolol	0,45%
Isospathulenol	0,14%
Valerenol	0,15%
Alpha-vetivol	0,19%
TOTAL	99,05%