



NHR ORGANIC OILS
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Certificate of Analysis & Gas Chromatography Organic Cistus Essential Oil (*Cistus ladaniferus*)

Batch number: 291025-5

Origin: Morocco

Conditions of operatory analysis

- Colonne : Elite 5MS 60 m x 0.18 mm x18 µm
- Dilution : 1 % dans l'hexane
- Injection : 1 µl. Split 60

Programmation of T°

Rampe	Rate(°C/min)	T °C	Duration (min)
Initial	-	65	0
1	30.0	135	3
2	3.0	240	0
3	30.0	260	4

Résultats combinés GC-SM

Compound	CAS N°	TR (min)	Content (%)	Allerg cosm. (%)
3-Methylbenzyl alcool	587-03-1		0.067	
Tricyclene	508-32-7	5.462	4.008	
α -Pinene	80-56-8	5.592	11.658	YES
Camphene	79-92-5	5.791	24.114	
Sulcatone	110-93-0	5.854	0.040	
β -Myrcene	123-35-3	5.918	0.298	
(E)-5-Isopropenyl-2-methyl-2-vinyltetrahydrofuran	54750-70-8	5.995	0.603	
β -Pinene	127-91-3	6.024	0.828	YES
Dimethylethylbenzene	98-06-6	6.078	0.024	
(Z)-5-Isopropenyl-2-methyl-2-vinyltetrahydrofuran	54750-69-5	6.143	0.413	
α -Terpinene	99-86-5	6.336	0.125	YES
β -Thujene	28634-89-1	6.375	0.049	
P-Cymene	99-87-6	6.413	0.312	
D-Limonene	5989-27-5	6.483	1.000	YES
2,2,6-Trimethylcyclohexanone	2408-37-9	6.581	3.438	
γ -Terpinene	99-85-4	6.786	0.331	

Isophorone	78-59-1	6.850	0.318	
(Z)-Linalool oxide	589-33-3	6.946	0.079	
(E)-Sabinene hydroxide	17699-16-0	7.079	0.065	
Linalol	78-70-6	7.206	1.472	YES
Hotrienol	20053-88-7	7.270	1.028	
3,5-Dimethylcyclohexanol	5441-52-1	7.606	0.135	
3-Nonen-2-one	14309-57-0	7.752	0.499	
α -Campholenal	4501-58-0	7.803	0.545	
Nerol oxide	1786-08-9	8.054	0.429	
(E)-Pinocarveol	547-61-5	8.179	0.635	
Camphor	76-22-2	8.295	0.218	YES
Terpinen-4-ol	562-74-3	8.452	0.198	
Isoneral	414-18-0 (NIST)	8.504	0.596	
3,3,5-Trimethylcyclohexyl acetate	24691-16-5	8.569	0.269	
Borneol	507-70-0	8.694	0.810	
(E)-Sabinene hydrate	17699-16-0	8.750	0.932	
Myrtenol	515-00-4	8.910	0.158	
α -Terpineol	98-55-5	8.976	0.577	YES
α -Thujenal	57129-54-1	9.062	0.131	
(Z)-5-Octenyl acetate	71978-0-2	9.112	0.194	
(E)-Chrysanthenyl acetate	50764-55-1	9.396	0.111	
Linalyl acetate	115-95-7	9.743	2.539	YES
Bornyl acetate	76-49-3	10.937	13.653	
Isobornyl acetate	125-12-2	11.004	0.286	
Sabinyl isobutanoate	5281-01-6	11.075	0.155	
γ -Elemene	29873-99-2	12.229	0.145	
Lavandulyl acetate	25905-14-0	12.313	0.267	
α -Cubebene	17699-14-8	12.514	0.302	
Linalyl acetate	115-95-7	12.849	0.325	YES
Cyclosativene	22469-52-9	13.384	0.568	
Copaene	3856-25-5	13.438	0.320	
1,3,8-P-Menthatriene	18368-95-1	13.705	0.206	
Ledol	577-27-5	15.470	0.521	
Cadina-3,5-diene	267665-20-3	15.686	0.195	
Alloaromadendrene	25246-27-9	16.141	0.732	
(Z)-Muurolo-4(14),5-diene	157477-72-0	16.327	0.396	
(Z)-Muurolo-4(15),5-diene	157477-72-0	16.391	0.149	
Viridiflorene	21747-46-6	17.078	2.644	
δ-Cadinene	483-76-1	17.794	2.045	

Calamenene	483-77-2	17.942	0.314	
Epizonarene	41702-63-0	17.999	0.170	
Cubenene	29837-12-5	18.322	0.272	
α -Calacorene	21391-99-1	18.659	0.353	
Palustrol	5986-49-2	19.858	0.347	
β -Copaen-4 α -ol	124753-76-0	20.021	0.346	
Geranyl α -Terpinene	374-18-8 (NIST)	20.293	0.343	
γ-Gurjunene	22567-17-5	20.793	5.462	
Aromandendrene	489-39-4	21.120	1.460	
Copaborneol	21966-93-8	21.232	0.926	
Copaene	3856-25-6	21.733	0.293	
Guaiol	489-86-1	22.806	0.165	
Valencene	4630-07-3	23.043	1.194	
Cadalene	483-78-3	23.312	0.112	
			93.91 %	