

Certificate of Analysis - Organic Sweet Marjoram Oil

Reference Name: Sweet Marjoram
CAS:
Botanical Species:

ID	FID%
THUJENE<ALPHA>	1.12%
PINENE<ALPHA->	0.81%
SABINENE	8.78%
PINENE<BETA->	0.47%
MYRCENE	1.88%
PELLANDRENE<ALPHA>	0.82%
TERPINENE<ALPHA->	8.60%
CYMENE <PARA>	1.15%
limonene / beta-phellandrene coelut.	4.20%
1,8 CINEOLE	0.19%
TERPINENE<GAMMA->	13.08%
SABINENE HYDRATE<TRANS->	4.22%
TERPINOLENE	3.06%
SABINENE HYDRATE<CIS->	11.70%
MENTH-2-EN-1-OL<CIS-PARA->	2.44%
MENTH-2-EN-1-OL<TRANS-PARA->	1.60%
BORNEOL	0.09%
TERPINEN-4-OL	21.09%
PARA-CYMEN-8-OL	0.08%
TERPINEOL<ALPHA->	4.87%
cis-Piperitol	0.51%
DIHYDRO CARVONE<CIS->	0.26%
DIHYDRO CARVONE<TRANS->	0.09%
terpinene-3-ol	0.70%
sabinene hydrate acetate <TRANS>	0.59%
LINALYL ACETATE	1.48%
BORNYL ACETATE	0.07%
Bicycloelemene	0.09%
CARYOPHYLLENE<E->	2.48%
HUMULENE<ALPHA->	0.12%
BICYCLOGERMACRENE	1.21%
SPATHULENOL	0.08%
CARYOPHYLLENE OXIDE	0.08%

The sample was analyzed with simultaneous MS and FID detection. Components were identified by MS while percentages were determined by the more accurate FID. The main components, making up 98% of the oil, are listed here. The sample composition was that expected for natural oil of *Origanum marjorana*. No adulteration or contamination was detected. Odor quality is excellent.