

ANALYSIS

Product Name : **ORGANIC SPANISH MARJORAM OIL**
Aceite esencial de Mejorana Española Ecológica

Botanical name : *Thymus mastichina*

Batch number : LSB111764

Origin : Spain

Analysis features :

Agilent GC System 7890A - Column : HP INNOWAX polaire : 60 m ´ 0,25 mm ´ 0,5 µm

Temperature program : 8 min to 95 °C – 4 °C/min till 190 °C - 29 min to 190°C

Carrier gas H2 : 30 psis/FID. Injector : split. Sample : 0.1 µl without dilution

The compounds of the essential oils are identified by retention times.

% Are calculated from the peak areas given by the GC / FID without the use of a correction factor.

Physical characteristics:

Density at 20°C	0,906
Refractive index at 20°C	1,463
Optical rotation at a 20°C	1,2

Production date:

Best before end:

GC Results

COMPONENTS	%	Standar
a-PINENE	3,09	1 - 4.5
CAMPHENE	0,29	
b-PINENE	3,75	2 - 5
SABINENE	2,01	
b-MYRCENE	1,25	
a-TERPINENE	0,33	
LIMONENE	2,28	1 - 6
1,8-CINEOLE	54,93	45 - 65
Cis-b-OCIMENE	0,14	
g-TERPINENE	0,87	
Trans-b-OCIMENE	0,63	
p-CYMENE	0,65	
TERPINOLENE	0,14	
CIS-OXIDE DE LINALOOL	0,09	
TRANS-TUJANOL	0,16	
TRANS-OXYDE DE LINALOOL	0,02	
CAMPHOR	0,56	0.1 - 2
LINALOOL	15,21	8 - 30
LINALYL ACETATE	1,29	0.2 - 3
BORNYL ACETATE	0,06	
ISOBORNYL ACETATE	0,05	
b-ELEMENE	0,28	
b-CARYOPHYLLENE	0,86	0.5 - 1.5
TERPINEN-4-OL	0,92	0.2 - 1.2
Trans-PIONCARVEOL	0,09	
d-TERPINEOL	0,92	0.2 - 2
NERAL	0,06	
BORNEOL	0,41	0.1 - 1.8
a-TERPINEOL	3,10	1 - 5
TERPENYL ACETATE	0,20	
NERYL ACETATE	0,04	
a-MUUROLENE	0,10	
GERANIAL	0,03	
GERANYL ACETATE	0,23	
CITRONELLOL	0,01	
GERANIOL	0,16	
CARYOPHYLLEN OXYDE	0,07	
LEDOL	0,24	
ELEMOL	0,05	
VIRIDIFLOROL	0,32	
g-EUDESOL	0,06	
a-EUDESOL	0,06	
ISO MAALIOL	0,06	
TOTAL	98,14	