

ANALYSIS

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

Botanical name : *Thymus mastichina*

Batch number : 96-655

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	0,905
Refractive index at 20°C	1,463
Optical rotation at a 20°C	0,0

Production date:

Best before end:

GC Results

COMPONENTS	%	Standar
a-PINENE	3,27	1 - 4.5
CAMPHENE	0,65	
b-PINENE	2,96	2 - 5
SABINENE	1,63	
b-MYRCENE	1,23	
a-TERPINENE	0,29	
LIMONENE	2,88	1 - 6
1,8-CINEOLE	51,78	45 - 65
Cis-b-OCIMENE	0,18	
g-TERPINENE	0,65	
Trans-b-OCIMENE	1,18	
p-CYMENE	0,90	
TERPINOLENE	0,15	
CIS-OXIDE DE LINALOOL	0,12	
TRANS-TUJANOL	0,08	
TRANS-OXYDE DE LINALOOL	0,10	
CAMPHOR	0,56	0.1 - 2
LINALOOL	17,17	8 - 30
LINALYL ACETATE	1,28	0.2 - 3
BORNYL ACETATE	0,31	
ISOBORNYL ACETATE	0,02	
b-ELEMENE	0,39	
b-CARYOPHYLLENE	0,67	0.5 - 1.5
TERPINEN-4-OL	0,73	0.2 - 1.2
Trans-PIONCARVEOL	0,25	
d-TERPINEOL	0,64	0.2 - 2
NERAL	0,18	
BORNEOL	0,75	0.1 - 1.8
a-TERPINEOL	2,60	1 - 5
TERPENYL ACETATE	1,20	
NERYL ACETATE	0,08	
a-MUUROLENE	0,06	
BICYCLOGERMACRENE	0,25	
GERANIAL	0,09	
GERANYL ACETATE	0,36	
CITRONELLOL	0,03	
GERANIOL	0,24	
CARYOPHYLLEN OXYDE	0,07	
LEDOL	0,02	
ELEMOL	0,13	
VIRIDIFLOROL	0,12	
g-EUDESOL	0,07	
a-EUDESOL	0,04	
ISO MAALIOL	0,05	
TOTAL	98,14	

