

ANALYSIS

Product Name : SPANISH MARJORAM OIL
Aceite esencial de Mejorana Española

Botanical name : *Thymus mastichina*

Batch number : LS107542

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	0,7

Production date:

Best before end:

GC Results

COMPONENTS	%	Standar
a-PINENE	3,75	1 - 4.5
CAMPHENE	0,31	
b-PINENE	4,29	2 - 5
SABINENE	2,03	
b-MYRCENE	1,32	
a-TERPINENE	0,24	
LIMONENE	2,77	1 - 6
1,8-CINEOLE	56,32	45 - 65
Cis-b-OCIMENE	0,17	
g-TERPINENE	0,70	
Trans-b-OCIMENE	0,50	
p-CYMENE	0,60	
TERPINOLENE	0,12	
CIS-OXIDE DE LINALOOL	0,05	
TRANS-TUJANOL	0,08	
TRANS-OXYDE DE LINALOOL	0,05	
CAMPHOR	0,38	0.1 - 2
LINALOOL	14,33	8 - 30
LINALYL ACETATE	1,21	0.2 - 3
BORNYL ACETATE	0,10	
ISOBORNYL ACETATE	0,03	
b-ELEMENE	0,18	
b-CARYOPHYLLENE	0,66	0.5 - 1.5
TERPINEN-4-OL	0,81	0.2 - 1.2
Trans-PIONCARVEOL	0,15	
d-TERPINEOL	0,80	0.2 - 2
NERAL	0,10	
BORNEOL	0,46	0.1 - 1.8
a-TERPINEOL	3,44	1 - 5
TERPENYL ACETATE	0,32	
NERYL ACETATE	0,03	
a-MUUROLENE	0,03	
BICYCLOGERMACRENE	0,10	
GERANIAL	0,06	
GERANYL ACETATE	0,22	
CITRONELLOL	0,04	
GERANIOL	0,13	
CARYOPHYLLEN OXYDE	0,04	
LEDOL	0,02	
ELEMOL	0,19	
VIRIDIFLOROL	0,12	
g-EUDESOL	0,05	
a-EUDESOL	0,04	
ISO MAALIOL	0,08	
TOTAL	98,14	

