

CERTIFICATE OF ANALYSIS

PRODUCT NAME: MARJORAM OIL SPANISH

BOTANICAL NAME: *Thymus mastichina*

COUNTRY OF ORIGIN: SPAIN

TEST (UNIT)	SPECIFICATION	RESULT
APPEARANCE	MOBILE LIQUID	MOBILE LIQUID
COLOUR	ALMOST COLOURLESS TO PALE YELLOW	VERY PALE YELLOW
CLARITY	CLEAR, NO FOREIGN MATTER	CLEAR, NO FOREIGN MATTER
ODOUR	SPICY, HERBAL	CHARACTERISTIC
SPECIFIC GRAVITY @ 20°C	0.900 to 0.920	0.907
OPTICAL ROTATION @ 20°C	-5° to +10°	0°
REFRACTIVE INDEX @ 20°C	1.460 to 1.468	1.463
CHROMATOGRAPHIC PROFILE		
ALPHA-PINENE (%)	Trace to 5.0	3.4
SABINENE (%)	Trace to 5.0	2.3
BETA-PINENE (%)	Trace to 8.0	4.7
BETA-MYRCENE (%)	Trace to 8.0	1.4
D-LIMONENE (%)	Trace to 5.0	2.1
1,8-CINEOLE (%)	38.0 to 65.0	57.1
LINALOOL (%)	10.0 to 35.0	12.0
ALPHA-TERPINEOL (%)	Trace to 5.0	3.3