

CERTIFICATE OF ANALYSIS
#293 / 26.06.2026

Name of product: Thymus mastichina Oil
Customer: Natural Heroes Europe EOOD
Sample identification: THM.26016.3043.0.0.S1667.T0
Additional information: FL Thymus mastichina (L.) L.
(Organic)
Lot: MO 44253

Date of receipt: 24/06/2026
Date of analysis: 26/06/2026
Sample quantity: 20 g.
Sampled by: client

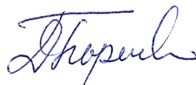
Chromatographic profile

Parameter	Range according to standard method	Result
1,8-Cineol	-	71.58
Linalool	-	0.98
alpha-Pinene	-	3.83
beta-Pinene	-	4.75
Limonene	-	1.16
Camphor	-	0.57

Disclaimer: This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Esseterre Bulgaria Ltd. The chromatographic profile is list of components selected as representative and characteristic components of an essential oil and does not determine the actual ratio of the components, but rather assesses their relative ratios. The analysis results refer only to the specific sample provided and do not constitute an opinion on the entire batch from which it was taken.

Attachment: Chromatographic file THM.26016.3043.0.0.S1667.T0

Laboratory Manager: Daniela Radeva Georgieva



Product Quality Control: Teodora Georgieva Popova





Sample Information
 Analyzed by Esseterre Laboratory
 Sample Type: Essential Oil
 Sample Name: Thymus mastichina
 Sample ID: THM.26016.3043.0.0.S1667.T0
 Analyzed: 24.6.2026 11:24:27
 Injection Volume: 2 µL

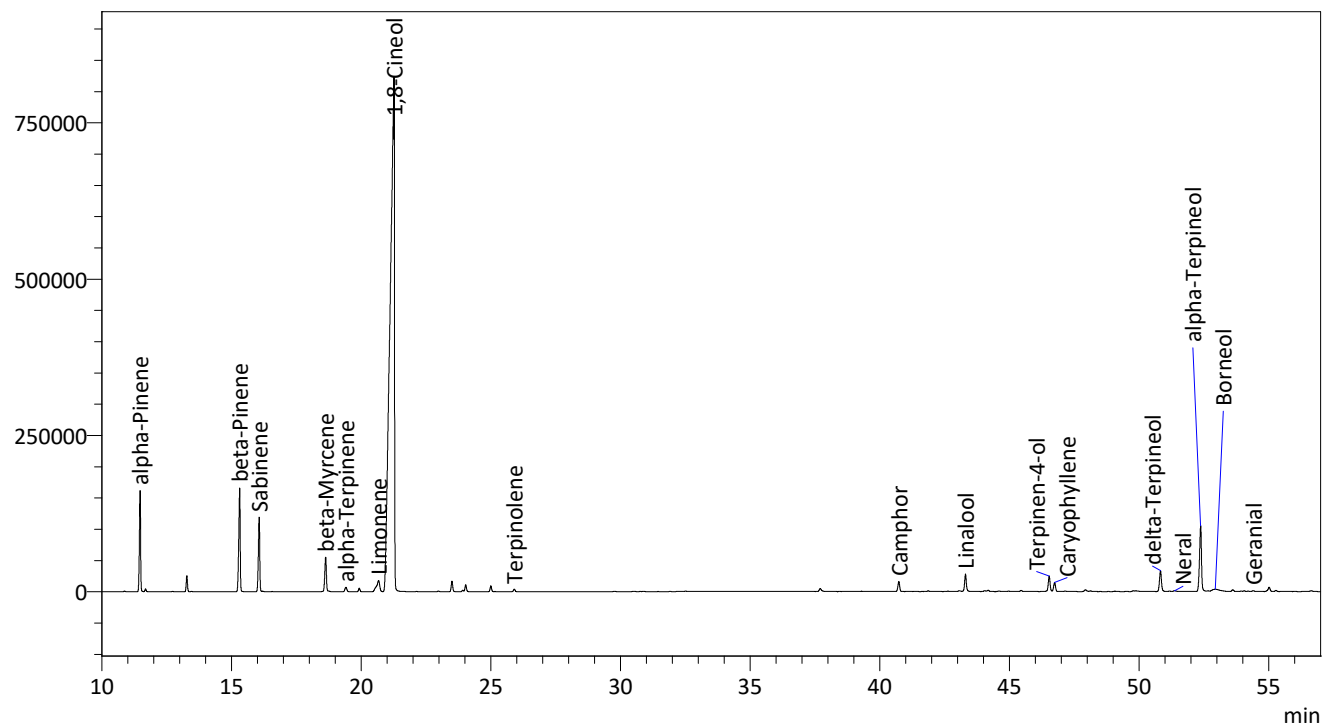
Column: 60mx0.25mmx0.25µm
 Carrier Gas: He
 Stationary phase: PEG
 Oven temperature: 40 °C - 1 min; to 220 °C - 2 °C/min

System Configuration

Detector: FID/MS
 Solution: 6% sol in CH₂Cl₂
 Split ratio: 1:200

Chromatogram
 Thymus mastichina

Intensity



FID1

ID#	Ret.Time	Name	Conc.	Units
1	11.480	alpha-Pinene	3.83	%
2	15.319	beta-Pinene	4.75	%
3	16.072	Sabinene	3.30	%
4	18.636	beta-Myrcene	1.81	%
5	19.417	alpha-Terpinene	0.28	%
6	20.677	Limonene	1.16	%
7	21.272	1,8-Cineol	71.58	%
8	25.910	Terpinolene	0.15	%
9	40.741	Camphor	0.57	%
10	43.311	Linalool	0.98	%
11	46.539	Terpinen-4-ol	0.92	%
12	46.749	Caryophyllene	0.55	%
13	50.832	delta-Terpineol	1.33	%
14	51.372	Neral	0.08	%
15	52.381	alpha-Terpineol	4.20	%
16	52.948	Borneol	0.59	%
17	54.408	Geranial	0.06	%

Typical Ranges of Components of Oil of Spanish wild marjoram (Thymus mastichina L.) (ISO 4728):

1,8-Cineol	30.0 - 68.0%	beta-Pinene	2.0 - 5.0%
Linalool	3.0 - 48.0%	Limonene	1.0 - 6.0%
alpha-Pinene	1.0 - 4.5%	Camphor	0.1 - 2.0%

Percentages are calculated from GC/FID peaks areas without using corrections factors;
 Components are identified by a combination of Rt (Esseterre database) and mass spectra libraries (242k compounds).

GAS CHROMATOGRAPHIC ANALYSIS

Method: Determination of the chromatographic profile of an essential oil by gas chromatography with flame ionisation detection (GC/FID) in accordance with BDS ISO 11024

Apparatus: Gas chromatograph with flame ionisation detector (GC/FID); capillary column with polar stationary phase based on polyethylene glycol (InterCap Pure-Wax), 60 m×0.25 mm×0.25 µm

Product: FL Thymus mastichina (L.) L. (Organic)

Lot: MO 44253

Report prepared for: Natural Heroes Europe EOOD

Internal code: THM.26016.3043.0.0.S1667.T0

Date: 24-06-2026

Identified components and relative content (%)

Ret. Time	Name	Area	Unit
11.480	alpha-Pinene	3.799	%
11.690	alpha-Thujene	0.110	%
13.282	Camphene	0.623	%
15.319	beta-Pinene	4.712	%
16.072	Sabinene	3.279	%
18.702	beta-Myrcene	1.800	%
19.417	alpha-Terpinene	0.281	%
19.931	2,3-Dehydro-1,8-cineole	0.162	%
20.677	Limonene	1.152	%
21.272	Eucalyptol	71.072	%
23.507	gamma-Terpinene	0.511	%
23.926	3-Octanone	0.068	%
23.992	trans-beta-Ocimene	0.337	%
25.006	p-Cymene	0.278	%
25.910	Terpinolene	0.147	%
37.708	cis-Sabinene hydrate	0.221	%
40.741	Camphor	0.568	%
43.066	trans-Sabinene hydrate	0.063	%
43.311	Linalool	0.972	%
44.052	cis-p-Mentha-2-en-1-ol	0.053	%

Ret. Time	Name	Area	Unit
44.187	Pinocarvone	0.081	%
45.457	Bornyl acetate	0.062	%
46.539	Terpinen-4-ol	0.916	%
46.749	Caryophyllene	0.542	%
47.934	Myrtenal	0.137	%
49.781	Alloaromadendrene	0.054	%
49.883	trans-Pinocarveol	0.093	%
50.832	delta-Terpineol	1.321	%
51.372	Neral	0.084	%
52.381	alpha-Terpineol	4.174	%
52.948	Borneol	0.590	%
53.620	Germacrene D	0.116	%
54.408	Geranial	0.058	%
55.021	Bicyclogermacrene	0.309	%
55.285	Valencene	0.063	%
56.652	delta-Cadinene	0.075	%
73.895	Elemol	0.130	%
74.132	Viridiflorol	0.049	%
81.458	Ledol	0.149	%
Total		99.21	%

Allergenic substances in accordance with Regulation (EC) No 1223/2009, Annex III are marked in red.

Components with a relative content below 0.05% of the total chromatogram area are not included in the table.

The content of the components was determined based on peak areas using the internal normalisation method.
 The results represent the relative weight content with respect to the sum of all detected peaks.