

CERTIFICATE OF ANALYSIS

ROSEMARY SPANISH FG EP 354 OIL

METAPHARMACEUTICAL INDUSTRIAL S.L.

CL JOSEP PL? 163 2§ - 5|
ES - 8020.0 BARCELONA

Customer order no.: 2021-1/247

Sensient order no.: 21008077 SO
Item No.: 353540109-0005A

Batch: 5740665
Manufacturing date: 2021-06-08
Best before date: 2023-05-29

Date format: YYYY-MM-DD

Analysis	Specification	Result	Unit	Method
1,8-Cineole	16 - 25	24.2	%	GC-FID
alpha-Pinene	18 - 26	20.7	%	GC-FID
alpha-Terpineol	1 - 3.5	2.6	%	GC-FID
beta-Pinene	2 - 6	3.6	%	GC-FID
Borneol	2 - 4.5	2.1	%	GC-FID
Bornyl Acetate	0.5 - 2.5	1.4	%	GC-FID
Camphene	8 - 12	8.9	%	GC-FID
Myrcene	1.5 - 5	1.9	%	GC-FID
p-Cymene	1 - 2.2	1.6	%	GC-FID
Camphor	13 - 21	20.8	%	GC-FID
Chromatographic Profile	Ph. Eur. According	Ph. Eur. According		GC-FID
D-Limonene	2.5 - 5	4.9	%	GC-FID
Verbenone	0.7 - 2.5	0.7	%	GC-FID
ForeignBody	neg	neg		-
Acid value	0.0 - 1.0	0.4	mgKOH/g	Ph. Eur.
Optical rotation @ 20°C	-5.0 - 8.0	3.3	°	AA-10R
Refractive Index @ 20°C	1.4640 - 1.4730	1.4684		GPR
Relative density @ 20°C	0.8950 - 0.9200	0.9082		DMA
Solubility Ethanol 96% 20°C	Soluble	Soluble		Ph. Eur.

Sensient Technologies Europe GmbH
Geesthacht, 2021-07-02 i.A. Markus Mint

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Sensient Technologies Europe GmbH

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