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Certificate of Analysis & Gas Chromatography Organic Eucalyptus Staigeriana Essential Oil (*Eucalyptus staigeriana*)

Batch Number : 210618-4

Country of Origin : Brasil

Botanical name:	<i>Eucalyptus staigeriana</i> F.Muell. ex F.M.Bailey
INCI :	EUCALYPTUS STAIGERIANA OIL (latin name)
Certifications :	Organic food product from organic farming certified by FR-BIO-01
How to obtain:	Obtained by steam distillation of the leaves of the <i>Eucalyptus staigeriana</i> F.Muell. ex F.M.Bailey

CONSERVATION AND DDM

Minimum Durability Date: End 2019

Store in closed containers well, protected from light and at a stable, moderate temperature.

Handle in a well-ventilated room away from sources of ignition and heat.

ORGANOLEPTIC CHARACTERISTICS

Internal Method Analysis

Property	Result	Specification
Aspect :	Liquid	Liquid
Colour :	Yellow	Yellow to greenish yellow
Odour :	Acidulated, lemony	Acidulated, dry and fresh

PHYSICAL CHARACTERISTICS

Analysis according to PE method in force.

Analysis	Result	Specification	Conditions of analysis
Density @ 20°C :	0,878	0,875 - 0,895	measured by an oscillating tube densimeter @ 20°C
Refractive index @ 20 °C :	1,477	1,450 - 1,482	measured @ 20 ° C under cold light
Rotating power @ 20 °C :	-30°	-40° - -18°	measured @ 20 ° C under a thickness of 1dm at the sodium wavelength D ($\lambda = 589.3\text{nm}$)

CHROMATOGRAPHIC PROFILE

Interpretation of the profile: In Appendix

Comments :	
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OBSERVATION

The validity and use of this Analysis Bulletin are reserved for this lot only, the results shown here correspond to those obtained at the time of the analysis.

INTERPRETATION OF THE CHROMATOGRAPHIC PROFILE

Composants	Résultats (%)	Spécifications (%)
α pinene +	3,63	
α thujene	0,26	
β pinene	2,17	
myrcene	0,79	
α phellandrene	2,25	
α terpinene	0,18	
limonene	25,20	20,00 à 26,00
β phellandrene	0,94	
1,8-cineole	4,08	<= 10,00
cis β ocimene	0,24	
γ terpinene	1,93	
trans β ocimene	0,37	
para cymene	1,89	
terpinolene	8,24	<= 12,00
citronellal	0,11	
linalol	1,73	
terpinen-4-ol +	1,16	
citronellyl acetate	0,29	
myrtenyl acetate	9,32	
neral		20,00 à 28,00
geranial		
	12,98	
bicyclogermacrene		
α terpineol	4,31	
neryl acetate	1,29	
geranyl acetate	3,43	
citronellool	0,69	
nerol	1,47	
geraniol	6,03	

Conditions of chromatographic analysis

CG: performed on a 7890B device

by the Internal laboratory

Column : DB-WAX , 20 m, 100 μm, 0.2 μm

Oven temperature: 60°C (2 min) 12°C/mn 248°C (5 min)

Integration: percentage of area - threshold: 0,05 %

Analytical conditions according to standards ISO 7609 (1985), 11024-1 (1998) and 11024-2 (1998).

The compounds are identified from the comparison of the retention times with those of standards derived from computerized and personal databases.

The% are calculated from the peak areas given by the GC / FID.

Injection : split - 279ml/mn

Detector temperature: 275 °C

Detector type: Flame ionization

Injected volume: 0,2 μ

Vector gas: Hydrogen - 0,7 ml/mn