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Certificate of Analysis & Gas Chromatography
Organic Lemon Myrtle Essential Oil (Backhousia citriodora)

Batch Number : 260219-9

Country of Origin : Australia

Date de création : 26/04/2011
Date de révision : 14/05/2014
Version n° : 03.00

Botanical name:	***Backhousia citriodora F. Muell.***
INCI :	**BACKHOUSIA CITRIODORA LEAF OIL**
Certifications :	**Organic food product from organic farming certified by FR-BIO-01**
How to obtain:	**Obtained by steam distillation of the leaves of the Backhousia citriodora F. Muell.**

CONSERVATIONANDDDM

Minimum Durability Date: End 2021
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.

ORGANOLEPTICCHARACTERISTICS

Internal Method Analysis

Property	Result	Specification
Aspect :	**Liquid**	*Clear moving liquid*
Colour :	**Yellow**	*Yellow to pale yellow*
Odour :	**Floral, lemony**	*Floral, lemony*

PHYSICAL CHARACTERISTICS

· **Analysis according to PE method in force.**

Analysis	Result	Specification	Conditions of Analysis
Density @ 20°C :	**0,890**	*0,880 à 0,900*	measured by an oscillating tube densimeter @ 20°C
Refractive index @ 20 °C :	**1,481**	*1,480 à 1,490*	measured @ 20 ° C under cold light
Rotating power @ 20 °C :	**0,13°**	*-3° à 5°*	measured @ 20 ° C under a thickness of 1dm at the sodium wavelength D (λ = 589.3nm)

CHROMATOGRAPHIC PROFILE

· **Interpretation of the profile: In Appendix**

· **Comments :**	

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

Components	Results (%)	Specifications (%)
methylheptenone	**0,28**	<= 3,00
dehydro-1,8-cineole	**0,24**	
myrcene	**0,25**	
citronellal	**0,13**	
linalol	**2,01**	<= 3,00
cis isocitral		<= 3,00
trans isocitral	**2,37**	<= 4,00
β caryophyllene	**0,08**	
neral	**38,10**	76,00 à 96,00
geranial	**51,89**	
biclyclogermacrene	**0,31**	
nerol	**0,94**	
geraniol	**1,58**	<= 3,00

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 %

Injection : split - 279ml/mn
Detector temperature: 275 °C
Detector type: Flame ionization
Injected volume:0,2 µ
Vector gas: Hydrogen - 0,7 ml/mn

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.