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## Certificate of Analysis & Gas Chromatography Organic Coriander Leaf Essential Oil (*Coriandrum sativum*)

Batch ~Number : 210518-5

Country of Origin : Hungary

Botanical name:	<i>Coriandrum sativum</i> L.
INCI :	CORIANDRUM SATIVUM HERB 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 <i>Coriandrum sativum</i> L.

### CONSERVATION AND DDM

Minimum Durability Date: End 2020

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	Light yellow to dark yellow
Odour :	Green	Flowered, grass, green and tenacious

### PHYSICAL CHARACTERISTICS

Analysis according to PE method in force.

Analysis	Result	Specification	Conditions of analysis
Density @ 20°C :	0,857	0,850 @ 0,860	measured by an oscillating tube densimeter @ 20°C
Refractive index @ 20 °C :	1,451	1,450 @ 1,460	measured @ 20 ° C under cold light
Rotating power @ 20 °C :	1°	0° @ 35°	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 (%)
nonane	0,63	
$\alpha$ pinene	0,98	
camphene	0,12	
$\beta$ pinene	0,12	
myrcene	0,59	
<i>limonene</i>	0,25	
$\gamma$ terpinene	0,69	
para cymene	0,28	
terpinolene	0,29	
decanal	19,61	10,00 à 25,00
camphre	0,58	
<i>linalol</i>	15,48	10,00 à 20,00
undecanal	0,32	
trans 2 decenal	24,97	25,00 à 38,00
$\alpha$ terpineol	0,08	
trans 2 undecenal	5,88	
geranyl acetate	3,32	
trans 2 tridecen-1-ol	11,87	<= 10,00
2 decen 1 ol		
tetradecanal	0,45	
trans 2 dodecen-1-al	5,78	<= 10,00
tridecanal	0,20	
trans 2 tridecenal	1,80	
10-undecene-1-al +	1,09	
dodecanal	0,96	

### Conditions of chromatographic analysis

CG: performed on a 7890B device

by the Internal laboratory

Column : DB-WAX , 20 m, 100  $\mu$ m, 0.2  $\mu$ m

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  $\mu$

Vector gas: Hydrogen - 0,7 ml/mn