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## Certificate of Analysis Sheet Organic Turmeric Essential Oil (*Curcuma longa*)

Date : 02/2021  
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Country of Origin : MADAGASCAR

Batch Number : 140921-3

### 1. IDENTIFICATION DE LA SUBSTANCE / IDENTIFICATION OF THE SUBSTANCE

**Nom du produit / Product's name:** Huile essentielle de CURCUMA BIO / Essential oil of ORGANIC TURMERIC  
**Législation :** Substance 100% pure et naturelle / Matter 100% pure and natural  
**Nom latin/Latin name** Curcuma Longa

### 2. CARACTERISTIQUES ORGANOLEPTIQUES ET PHYSIQUES/PHYSICAL AND ORGANOLEPTIC CHARACTERISTICS

CRITÈRES / CRITERIA	RESULTAT / RESULT	SPECIFICATIONS	CONFORMITÉ / CONFORMITY
Aspect / Appearance	LIQUIDE / LIQUID	LIQUIDE / LIQUID	Conforme / Compliant
Couleur / Colour	JAUNE PALE / PALE YELLOW	JAUNE PALE / PALE YELLOW	Conforme / Compliant
Odeur / Odour	CITRONNEE, RICHE, FRAICHE / LEMONY, RICH, FRESH	CITRONNEE, RICHE, FRAICHE / LEMONY, RICH, FRESH	Conforme / Compliant

CRITÈRES / CRITERIA	RESULTAT / RESULT	SPECIFICATIONS	CONFORMITÉ / CONFORMITY
Densité à 20°C / Density at 20°C	0.835	0.914-0.942	Conforme / Compliant
Pouvoir Rotatoire	-26.5°	-30 ° à +5°	Conforme / Compliant
Indice de réfraction	1.509	1.505 – 1.512	Conforme / Compliant

### 3. ANALYSES CHROMATOGRAPHIQUES / MICROBIOLOGICAL CHARACTERISTIC

CONSTITUANTS / CONSTITUENTS	%
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b-myrcene	4.30
Limonene	0.20
Terpinolene	0.40
Alpha-terpineol	0.20

Ar-curcumene	2.90
Beta citronellol	1.80
Ar turmerone	32.00
Turmerone I	16.90
Turmerone II	18.60
Alpha pinene	0.15
Beta pinene	0.03
Alpha terpinene	0.06
1.8 cineole	0.87
Gamma terpinene	0.17
Para cymene	0.46
Alpha copaene	0.11
Beta elemene	0.06
Beta caryophyllene	0.64
Alpha humulene	0.08
Neral	0.14
Alpha zingiberen	3.32
Geranial	0.55
Delta cadinene	0.03
Acetate de geranyle	0.19
Nerol	0.02
Geraniol	0.12
Oxide de caryophyllene	0.04
Eugenol	0.22