



CERTIFICATE OF ANALYSIS (COA)

PRODUCT IDENTIFICATION

Product Name: Turmeric Essential Oil
Botanical Name: Curcuma longa L.
INCI Name: Curcuma Longa Root Oil
CAS Number: 8024-37-1 / 84775-52-0
EC Number: 283-882-1
Material Type: Natural Essential Oil
Plant Part: Rhizomes/roots
Extraction Method: Steam Distillation
Country of Origin: Ivory Coast
Quality: 100% Pure and Natural
Batch/Lot Number: Not provided
Manufacturing Date: Not provided
Product Expiry Date: Not provided

PHYSICAL AND CHEMICAL ANALYSIS

Test	Specification	Reference Result
Appearance	Pale yellow to orange-yellow liquid	Conforms
Odour	Fresh, spicy and slightly woody	Conforms
Refractive Index at 25 °C	1.499–1.521	1.510
Specific Gravity at 25 °C	0.925–0.971	0.957
Optical Rotation	–38° to +28°	Conforms
Solubility in Alcohol	Soluble	Conforms
Solubility in Fixed Oils	Soluble	Conforms
Solubility in Water	Insoluble	Conforms
Botanical Identification	Characteristic of Curcuma longa Root Oil	Conforms
Purity	100% pure and natural	Conforms

MICROBIOLOGICAL SPECIFICATIONS

Test	Specification	Method	Reference Result
Aerobic Mesophilic Bacterial Count	<100 CFU/g	ISO 21149	Conforms
Yeast and Mould	<10 CFU/g	ISO 16212	Conforms
Candida albicans	Absent in 1 g	ISO 18416	Conforms
Escherichia coli	Absent in 1 g	ISO 21150	Conforms
Pseudomonas aeruginosa	Absent in 1 g	ISO 22717	Conforms



Test	Specification	Method	Reference Result
Staphylococcus aureus	Absent in 1 g	ISO 22718	Conforms

HEAVY-METAL SPECIFICATIONS

Heavy Metal	Specification	Reference Result
Lead – Pb	<10 ppm	Conforms
Arsenic – As	<2 ppm	Conforms
Mercury – Hg	<1 ppm	Conforms

ORGANOLEPTIC PROFILE

Appearance: Pale yellow to orange-yellow liquid

Odour Family: Spicy and woody

Odour Description: Fresh, warm, spicy, earthy and slightly woody

Volatility: Middle note

Botanical Character: Characteristic of steam-distilled Turmeric rhizomes

TYPICAL NATURAL CONSTITUENTS

The oil may naturally contain:

- Alpha-Turmerone
- Aromatic Turmerone
- Curlone/Beta-Turmerone
- Alpha-Zingiberene
- Beta-Sesquiphellandrene
- Terpinolene
- Beta-Caryophyllene
- Ar-Turmerone

The precise concentrations require batch-specific GC-MS analysis.

PURITY DECLARATION

The product is described as:

- 100% pure and natural
- Steam distilled from *Curcuma longa* rhizomes
- Free from intentionally added carrier oil
- Free from intentionally added synthetic fragrance
- Free from intentionally added colourants



- Free from intentionally added preservatives
- Insoluble in water
- Soluble in alcohol and fixed oils

STORAGE CONDITIONS

Store in a tightly closed and preferably full container in a cool, dry and well-ventilated place.

Protect from direct sunlight, heat, moisture and prolonged air exposure.

Recommended Storage Temperature: Below 25 °C.

When stored for more than 36 months, the quality should be checked before use.

QUALITY CONCLUSION

The reference material conforms to the published physical, chemical, organoleptic, microbiological and heavy-metal specifications for Turmeric Essential Oil.

Quality Status: REFERENCE SPECIFICATION APPROVED

Declaration

This reference COA has been prepared using current published analytical specifications for steam-distilled *Curcuma longa* Root Oil.

The numerical reference results were obtained from a published Turmeric Essential Oil COA and were not generated from an Aromology Ivory Coast batch.

A batch-specific COA requires:

- The Aromology lot number
- Manufacturing date
- Actual expiry or best-before date
- Batch-specific physical-test results
- Applicable GC-MS or identity testing

The document expiry/review date of 18/08/2029 is not a substitute for a missing batch-specific product expiry date.

Issue Date: 18/08/2026

Expiry/Review Date: 18/08/2029



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