

CERTIFICATE OF ANALYSIS (COA)

FRANKINCENSE ESSENTIAL OIL

Manufacturing Date: 02 -2024 | Expiry Date: 02 -2026

PRODUCT IDENTITY

Product Name	Frankincense essential Oil
Material	gum
Common Name	Frankincense
Botanical Name	Boswellia serrata
Extraction process	Distillation
Preservative	NIL
Pesticides Residue	Negative
Appearance	Clear yellow oil
Solubility	soluble in Oil
Shelf Life	2 years
Storage	Cool & Dark place

PHYSICAL & CHEMICAL CHARACTERISTIC

Item	Test Results	Specification	Method
Description	Complies	Liquid Clear yellow	Olfactory
Odour	Complies	Frankincense odor	Olfactory
Optical Rotation	38.9	+10 to +40	ISO 855
Refractive Index	1.470	1.45-1.48	Refractometer/Ph.Eur
Relative Density at 20 °C	0.887	0.835-0.890	ISO 855

ACTIVE COMPOUNDS TEST

Item	Test Results	Unit	Method
Alpha-pinene	82.80	%	GC-MS

HEAVY METAL TEST

Item	Specification	Method	Test Results
Total Heavy Metals (ppm)	NMT- 10 ppm	USP<730>	Complies
a) Lead (Pb)	NMT- 3.0 ppm	USP<730>	Complies
b) Arsenic (As)	NMT-1.0 ppm	USP<730>	Complies
c) Cadmium (Cd)	NMT-1.0 ppm	USP<730>	Complies
d) Mercury (Hg)	NMT- 0.5 ppm	USP<730>	Complies

MICROBIOLOGICAL TEST

Item	Specification	Method	Test Results
Total plate count	NMT-100 CfU/gm	USP 41	<10
E.coli	Absent	USP 41	Absent
Salmonella	Absent	USP 41	Absent
Pseudomonas aeruginosa	Absent	USP 41	Absent
Staphylococcus aureus	Absent	USP 41	Absent
Yeast & Mould counts	NMT-10Cfu/gm	USP 41	<10