



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Item	Details
Product Name	Gurjun Balsam Essential Oil
Alternative Names	Gurjun Oil; Gurjum Balsam Oil; East Indian Copaiba Balsam Oil
Botanical Source	<i>Dipterocarpus turbinatus</i> C.F.Gaertn. / <i>Dipterocarpus</i> spp.
INCI Name	Dipterocarpus Turbinatus Balsam Oil
Primary CAS Number	8030-55-5
EC Number	232-444-8
Plant Material	Oleoresin / balsamic exudate
Extraction Method	Steam distillation
Product Type	Natural essential oil / Natural Complex Substance
Issue Date	17 July 2026
Recommended Retest Period	24 months under recommended storage conditions

ORGANOLEPTIC AND PHYSICAL SPECIFICATIONS

Parameter	Representative Specification	Representative Result	Status
Appearance	Mobile to slightly viscous liquid	Complies	Pass
Colour	Pale amber to dark amber-brown	Amber-brown	Pass
Odour	Warm, woody, resinous, balsamic, earthy and mildly smoky	Characteristic	Pass
Relative Density at 20°C	0.930–0.970	0.951	Pass
Refractive Index at 20°C	1.500–1.518	1.509	Pass
Optical Rotation	Batch and chemotype dependent	Conforms	Pass



Flash Point	Batch dependent; generally high	Conforms	Pass
Solubility in Water	Insoluble	Complies	Pass
Solubility in Alcohol	Soluble or dispersible	Complies	Pass
Foreign Matter	Free from visible contamination	None observed	Pass
Added Carrier Oils	Not permitted unless declared	Not detected	Pass
Added Synthetic Fragrance	Not permitted	Not detected	Pass

REPRESENTATIVE NATURAL COMPOSITION

Naturally Occurring Constituent Representative Status

Alpha-Gurjunene	Major constituent in Gurjunene-rich batches
Alpha-Copaene	Major constituent in Copaene-rich batches
Beta-Caryophyllene	Commonly present
Alpha-Humulene	Naturally present
Beta-Gurjunene	Batch dependent
Gamma-Gurjunene	Batch dependent
Aromadendrene	Batch dependent
Alloaromadendrene	Batch dependent
Other Natural Sesquiterpenes	Balance

Gurjun Balsam Essential Oil may occur in different natural chemotypes. The relative concentrations of alpha-gurjunene, alpha-copaene, beta-caryophyllene and related sesquiterpenes may therefore vary substantially.

QUALITY AND PURITY DECLARATION

The representative material is:

- Obtained from the balsamic exudate of *Dipterocarpus* species.
- Produced by steam distillation.
- Free from intentionally added synthetic fragrance materials.
- Free from intentionally added carrier oils or diluents unless declared.
- Free from visible foreign matter.
- Intended for professional perfumery, fragrance and cosmetic formulation.
- Not intended for internal consumption as supplied.

Natural variation may occur according to botanical species, geographical origin, resin maturity, distillation conditions, chemotype, storage and production batch.



STORAGE

Store:

- In the original tightly sealed container.
- In a cool, dry and well-ventilated location.
- Protected from heat and direct sunlight.
- Away from strong oxidising agents.
- With minimal container headspace.
- Out of reach of children.

CONCLUSION

THE REPRESENTATIVE MATERIAL COMPLIES WITH THE ABOVE QUALITY SPECIFICATIONS

The specifications and results shown are representative and must not be presented as batch-specific analytical results. The original producer's Certificate of Analysis and laboratory data shall take precedence where available.

Authorised by:

Fozia Khot
Director