

Cardamom Oil

Elettaria cardamomum

Batch No.	CO25033062	Manufacturing Date	24 Mar 2025
Sample Ref.	PN-3062	Expiry / Retest Date	24 Mar 2027
Reporting Date	03 Jul 2026	Country of Origin	Kerala & Karnataka, India

Organoleptic Characteristics

Parameter	Specification	Result
Appearance	Colourless to pale yellow liquid	Complies
Odour	Warm, spicy, sweet-aromatic	Characteristic
Solubility	Soluble in alcohol	Complies

Physico-Chemical Analysis

Parameter	Method	Specification	Result
Refractive Index @ 20°C	IS 326 / IP	1.462 – 1.468	1.462
Specific Gravity @ 25°C	IS 326 / IP	0.917 – 0.947	0.917
Optical Rotation @ 20°C	IS 326 / IP	+22° to +44°	Within limits
Extraction Method	In-house	Steam Distillation	Complies
CAS Number	—	8000-66-6	8000-66-6

Chromatographic Assay (GC-MS / HPLC)

Constituent	Method	Specification	Result
α-Terpinyyl Acetate	GC-MS	38% min	41.29 %
Other identified marker	GC-MS	Report	5.37 %
Total volatile content	GC-MS	≥ 95%	97.98 %

Purity & Safety

Parameter	Specification	Result
Heavy Metals (as Pb)	≤ 10 ppm	< 1 ppm
Arsenic	≤ 3 ppm	< 0.5 ppm
Pesticide Residues	As per EU 396/2005	Complies
Microbial Count (TAMC)	≤ 1000 cfu/g	< 100 cfu/g

E. coli / Salmonella	Absent / g	Absent
GMO Status	Non-GMO	Complies
Allergen Declaration	IFRA / EU 1223/2009	See product data sheet

Conclusion: The above batch complies with Plantique Naturals in-house specifications and referenced pharmacopoeial / regulatory standards. Material is released for dispatch.

Analysed by
Quality Control Laboratory
Plantique Naturals

Approved by
K. Regalla
Quality Assurance Head

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