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CERTIFICATE OF ANALYSIS
Private Laboratory

SUBSTANCE IDENTIFICATION

Name:	CARDAMOM OIL (Elettaria cardamomum)
Product code:	4181
INCI/	Elettaria cardamomum seed oil
CAS Nr.:	8000-66-6/85940-32-5
EINECS Nr:	288-922-1
Batch:	CO 01/2025
Production date:	06/ 2025
Expiration date:	06/ 2030
Specification:	Internal

GENERAL CHARACTERISTICS

Type of product:	100% Natural essential oil
Quality:	Conventional product
Botanical name:	Elettaria cadramomum L.
Type of production:	Water steam distillation
Plant part:	Seed
Country of origin:	India

SENSORICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Appearance	Greenish yellow liquid	Complies
Odor	Characteristic	Complies

PURITY

Parameter	Parameter	Result
Fatty acids and resinfied essential oils	Not present	Complies
Additives	Not present	Complies

CHEMICAL CHARACTERISTICS (GC-FID)

Parameter	Specification requirements	Result
αPinene		1.9 %
Sabinene		3.5 %
βMyrcene		2.5 %
Limoneene + 1.8-Cineol	26.0-45.0 %	39.2 %
Linalool		0.5 %
Terpinene-4-ol		1.4 %
αTerpineol		1.0 %
Linalyl acetate		1.8 %
αTerpenyl acetate	29.0-40.0 %	39.7 %
trans Nerolidol		0.9 %

PACKAGING AND STORAGE

Parameter	Requirements
Standard packaging	ALU, HDPE
Storage	In tight closed and full containers, at cool, dry and well ventilated place below 25°C
Reanalysis	When opened for more than 24 months quality should bechecked before use.