

BIORUŽA, s. r. o.

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CERTIFICATE OF ANALYSIS Private Laboratory

SUBSTANCE IDENTIFICATION

Name: GERANIUM OIL (Pelargonium asperum)
Product code: 4189
INCI: Pelargonium Graveolens Flower Oil
CAS Nr.: 90082-51-2 / 8000-46-2
EINECS Nr.: 290-140-0
Batch: CO 01/2024
Production date: 06 2024
Expiration date: 06 2029
Specification: Internal

GENERAL CHARACTERISTICS

Type of product: 100% Natural essential oil
Quality: Conventional product
Botanical name: Pelargonium asperum
Type of production: Water steam distillation
Plant part: Herb
Country of origin: Egypt

SENSORICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Appearance	Yellow liquid	Complies
Odor	Characteristic	Complies

PHYSICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Specific density (20°C)	0.882-0.899	Complies
Refractive index (20°C)	1.461-1.470	Complies
Optical rotation (20°C)	-14° to -8°	Complies

PURITY

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

CHEMICAL CHARACTERISTICS (GC-FID)

Parameter	Specification requirements	Result
Limonene		0.3 %
Linalool		3.6 %
Isomenthone		6.7 %
Citronellol	15.0-45.0 %	33.7 %
Neral		0.5 %
Geraniol	10.0-25.0 %	13.2 %
Citronellyl formate		7.2 %
Geranyl formate		2.6 %
β Caryophyllene		1.8 %
Germacrene D		1.9 %
δ Cadinene		1.5 %
10-epi-gamma-Eudesmol		4.5 %

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 be checked before use.

ASSESSMENT

Quality conforms to the specification.

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