

BIORUŽA, s. r. o.

Laborecká 1, 010 01 Žilina, IČO: 52234070, IČ DPH: SK2120953802, tel.: 00421 905 864 140,
info@bioruza.sk

CERTIFICATE OF ANALYSIS Private Laboratory

SUBSTANCE IDENTIFICATION

Name: LIMEOIL (Citrus aurantifolia)
Productcode: 4175
INCI: Citrus Aurantifolia Oil
CASNr: 8008-26-2
EINECSNr: 289-713-8
Batch: CO 06/2024
Productiondate: 06/2024
Expirationdate: 06/2029
Specification: Internal

GENERAL CHARACTERISTICS

Typeofproduct: 100% Natural essential oil
Quality: Conventional product
Botanical name: Citrus aurantifolia
Type of production: Water steam distillation
Plant part: Peel
Country of origin/: Mexico

SENSORICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Appearance	Colourless to greenish-yellow liquid	Complies
Odor	Characteristic	Complies

PHYSICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Specificdensity/Relativnagostota(20°C)	0.850-0.868	0.859
Refractiveindex/Indeksrefrakcije(20°C)	1.473-1.477	1.475
Opticalrotation/Optičnasučnost(20°C)	+35.0°to+60.0°	+55.6°

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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
α Pinene	1.0-3.0%	1.4%
β Pinene		5.1%
Myrcene		1.4%
α Terpinene		3.0%
p-Cymene		2.8%
Limonene	50.0-65.0%	58.5%
γ Terpinene	10.0-16.0%	12.6%
α Terpinolene		7.0%
α Terpineol	3.0-7.0%	5.1%

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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