

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

SUBSTANCE IDENTIFICATION

Name: LEMONGRASS OIL (Cymbopogon citratus)
Product code: 4180
INCI: Cymbopogon citratus oil
CAS Nr.: 89998-14-1
EINECS Nr.: 289-752-0
Batch: 135
Production date: 06 2023
Expiration date: 06 2027
Specification: Internal

GENERAL CHARACTERISTICS

Type of product: 100% Pure and Natural essential oil
Quality: Organic product
Botanical name: Cymbopogon citratus, Poaceae
Type of production: Water distillation
Plant part: Above ground part
Country of origin: Nepal

SENSORICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Appearance	Pale yellow liquid	Ustreza
Odor	Characteristic	Ustreza

PHYSICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Specific density/Relativna gostota (20°C)	0.885 - 0.905	0.892
Refractive index/Indeks refrakcije (20°C)	1.473 - 1.483	1.479
Optical rotation/Optična sučnost (20°C)	-5° to +1°	-3.4°

PURITY

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

CHEMICAL CHARACTERISTICS (GC-FID)

Parameter	Specification requirements	Result
Camphene		1.9 %
3-Octanone		5.3 %
Limonene		0.8 %
Linalool		1.8 %
Citronellal		1.2 %
Terpinen-4-ol		2.2 %
Citronellol		0.2 %
Neral	20-50 %	25.3 %
Geraniol	<10 %	8.4 %
Geranial	20-50 %	32.0 %
Geranyl acetate	<10 %	5.6 %
β -Caryophyllene		2.5 %
γ -Cadinene		1.5 %

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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