

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:	VALERIAN OIL (Valeriana officinalis)
INCI:	Valeriana officinalis root oil
CAS Nr.:	97927-02-1
EINECS Nr.:	308-322-6
Batch:	LOT № CE 002/2023
Production date:	05/2026
Expiration date:	05/2029
Specification:	Internal

GENERAL CHARACTERISTICS

Type of product:	100% Natural essential oil, No synthetics or additives
Quality:	Conventional product
Botanical name:	Valeriana officinalis L.
Type of production:	Water steam distillation
Plant part:	Roots
Country of origin:	Bulgaria

SENSORICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Appearance	Slightly yellow to yellow brownish liquid	Ustreza
Odor	Characteristic	Ustreza

PURITY

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

PHYSICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Specific density/Relativna gostota (20°C)	0.920-0.970	0.922
Optical rotation/Optična sučnost (20°C)	-20° to -40°	-33.9°

Refractive index/Indeks refrakcije (20°C)	1.470-1.485	1.471
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CHEMICAL CHARACTERISTICS (GC-FID)

Parameter	Specification requirements	Result
α Pinene		6.9 %
α Fenchene+Camphene		36.4 %
β Pinene		4.8 %
Limonene		1.6 %
Bornyl acetate		31.8 %
β Caryophyllene		1.7 %
α Humulene		2.9 %
Valerenal		1.4 %

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.