

CERTIFICATE OF ANALYSIS
Private laboratory**1. SUBSTANCE IDENTIFICATION**

Name: ROSEMARY OIL (Rosmarinus officinalis) Organic
Product code: 4146
INCI: Rosmarinus Officinalis Leaf Oil
CAS Nr.: 84604-14-8/8000-25-7
EINECS Nr.: 283-291-9
Batch: 01/2027
Production date: 05/2027
Expiration date: 05/2030

2. GENERAL CHARACTERISTICS

Type of product: 100% Natural essential oil
Quality: Organic – BG-BIO-04
Botanical name: Rosmarinus officinalis L.
Type of production: Water steam distillation
Plant part: Branches and Flowering tops
Country of origin: Bulgaria

3. SENSORICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Appearance	Pale yellow to yellow liquid	Complies
Odor	Characteristic	Complies

4. PHYSICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Specific density (20°C)	0.895-0.920	0.912
Refractive index (20°C)	1.464-1.473	1.467
Optical rotation (20°C)	-5 to +8°	+2.4°
Acid value	max 1.0	0.4

5. PURITY

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

6. CHEMICAL CHARACTERISTICS (GC-FID)

Parameter	Specification requirements	Result
A-Pinene	9.0-14.0 %	11.9 %
Camphene	2.5-6.0 %	4.5 %
β Pinene	4.0-9.0 %	6.8 %
β Myrcene	1.0-2.0 %	1.7 %
Limonene	1.5-4.0 %	2.5 %
1,8-Cineole	38.0-65.0 %	59.8 %
P-Cymene	0.8-2.5 %	1.2 %
Borneol	1.5-5.0 %	3.2 %
Camphor	5.0-15.0 %	10.6 %
Bornyl acetate	0.1-1.5 %	0.9 %
Verbenon	max 0.4 %	0.2 %
A-Terpineol	1.0-2.6 %	1.6 %

7. 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.