

# BIORUŽA, s. r. o.

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## CERTIFICATE OF ANALYSIS

Private laboratory

### SUBSTANCE IDENTIFICATION

Name: PARSLEY LEAF OIL (Petroselinum crispum)  
Product code: 99  
INCI: Petroselinum Crispum Leaf Oil  
CAS Nr.: 84012-33-9  
EINECS Nr. 281-677-1  
Batch: CE 046  
Production date: 08/2023  
Expiration date: 08/2028  
Specification: Internal

### GENERAL CHARACTERISTICS

Type of product: 100% Natural essential oil  
Quality: Conventional product  
Botanical name: Petroselinum crispum (Mill.) A.W.Hill  
Type of production: Water steam distillation  
Plant part: Upperground part  
Country of origin: Serbia

### SENSORICAL CHARACTERISTICS

| Parameter  | Specification requirements   | Result  |
|------------|------------------------------|---------|
| Appearance | Pale yellow to yellow liquid | Ustreza |
| Odor       | Characteristic               | Ustreza |

### PHYSICAL CHARACTERISTICS

| Parameter               | Specification requirements | Result |
|-------------------------|----------------------------|--------|
| Specific density (20°C) | 0.900-1.016                | 0.929  |
| Refractive index (20°C) | 1.500-1.530                | 1.506  |
| Optical rotation (20°C) | -12.0° to +1.0°            | -3.9°  |

### PURITY

| Parameter | Parameter | Result |
|-----------|-----------|--------|
|-----------|-----------|--------|

|                                           |             |         |
|-------------------------------------------|-------------|---------|
| Fatty acids and resinified essential oils | Not present | Ustreza |
| Additives                                 | Not present | Ustreza |

### **CHEMICAL CHARACTERISTICS (GC-FID)**

| Parameter                | Specification requirements | Result |
|--------------------------|----------------------------|--------|
| $\alpha$ Pinene          |                            | 14.0 % |
| $\beta$ Pinene           |                            | 9.5 %  |
| $\beta$ Myrcene          | 2.5-6.5 %                  | 5.8 %  |
| $\beta$ Phellandrene     | 7.5-13.5 %                 | 13.5 % |
| $\alpha$ Terpinolene     |                            | 6.6 %  |
| p-Menthatriene           | 10.0-35.0 %                | 24.8 % |
| Myristicin               | 8.0-25.0 %                 | 9.3 %  |
| Elemicin                 |                            | 1.6 %  |
| Tetramethoxyallylbenzene |                            | 3.9 %  |
| Apiol                    |                            | 3.6 %  |

### **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.