

# BIORUŽA, s. r. o.

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

## CERTIFICATE OF ANALYSIS Private Laboratory

### SUBSTANCE IDENTIFICATION

**Name:** PALO SANTO OIL (Bursera graveolens)  
**Product code:** 4171  
**INCI:** BURSERA GRAVEOLENS WOOD OIL  
**CAS Nr.:** 959130-05-3  
**EINECS Nr.:** 619-180-2  
**Batch:** R02993  
**Production date:** 06 2024  
**Expiration date:** 06 2029  
**Specification:** Internal

### GENERAL CHARACTERISTICS

**Type of product:** 100% Natural essential oil  
**Quality:** Conventional product  
**Botanical name:** Bursera graveolens  
**Type of production:** Water steam distillation  
**Plant part:** Wood  
**Country of origin:** Peru

### SENSORICAL CHARACTERISTICS

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

### PHYSICAL CHARACTERISTICS

| Parameter                  | Specification requirements | Result |
|----------------------------|----------------------------|--------|
| Specific density<br>(20°C) | 0.860 - 0.890              | 0.887  |
| Refractive index<br>(20°C) | 1.463 - 1.485              | 1.480  |

### PURITY

| Parameter                                    | Parameter   | Result   |
|--|-------------|----------|
| Fatty acids and resinified<br>essential oils | Not present | Complies |
| Additives                                    | Not present | Complies |

# BIORUŽA, s. r. o.

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

## CHEMICAL CHARACTERISTICS (GC-FID)

| Parameter           | Specification requirements | Result |
|---------------------|----------------------------|--------|
| p-Cymene            |                            | 3.0 %  |
| Limonene            | min 40.0 %                 | 52.6 % |
| Linalool            |                            | 0.1 %  |
| Menthofuran         | max 15.0 %                 | 2.0 %  |
| $\alpha$ -Terpineol | 5.0 - 15.0 %               | 12.8 % |
| trans-Carveol       |                            | 1.8 %  |
| Carvone             |                            | 2.6 %  |
| $\beta$ -Bisabolene |                            | 5.6 %  |

## 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.**

BIORUŽA, s. r. o.

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