

# CERTIFICATE OF ANALYSIS



## SUBSTANCE IDENTIFICATION

|                 |                             |
|-----------------|-----------------------------|
| Name            | Winter savory oil CT Thymol |
| INCI            | Satureja Montana Oil        |
| CAS Nr.         | 90106-57-3                  |
| EINECS Nr.      | 290-280-2                   |
| Batch           | R2310.01                    |
| Production date | 09 2023                     |
| Expiration date | 09 2028                     |
| Specification   | Internal                    |

## GENERAL CHARACTERISTICS

|                    |                                |
|--------------------|--------------------------------|
| Type of product    | 100% Natural essential oil     |
| Quality            | Conventional product           |
| Botanical name     | Satureja montana L., Lamiaceae |
| Type of production | Water steam distillation       |
| Plant part         | Flowering above parts          |
| Country of origin  | Serbia                         |

## SENSORICAL CHARACTERISTICS

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

## 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 |
|-----------------------|----------------------------|--------|
| $\alpha$ Thujene      |                            | 1.3 %  |
| $\alpha$ Pinene       | 1.0 - 2.5 %                | 1.1 %  |
| Camphene              |                            | 0.7 %  |
| $\beta$ Pinene        |                            | 1.5 %  |
| $\beta$ Myrcene       | 1.0 - 2.5 %                | 2.0 %  |
| $\alpha$ Terpinene    | 1.5 - 3.0 %                | 1.9 %  |
| P-Cymene              | 10.0 - 23.0 %              | 10.3 % |
| 1.8 Cineol            |                            | 0.1 %  |
| $\gamma$ Terpinene    | 3.0 - 11.0 %               | 8.5 %  |
| Linalool              |                            | 1.2 %  |
| Borneol               | 1.5 - 3.0 %                | 1.9 %  |
| Terpinen-4-ol         |                            | 1.0 %  |
| Thymol                | 38.5 - 50 %                | 49.4 % |
| Carvacrol             | 2.5 - 5.0 %                | 4.2 %  |
| $\beta$ Caryophyllene | 2.0 - 4.0 %                | 3.1 %  |
| $\beta$ Bisabolene    | 3.0 - 5.0 %                | 3.7 %  |

## 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.              |

## ASSESSMENT

Quality conforms to the specification.

Approved by  
Date

Neža Rangus Ignjatović  
11.12.2023

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