



Certificate of Analysis

| | | | |
|-----------------|-----------------------------------------------|--------------------|--------------------------------------|
| Product Name: | Juniper Berry Essential Oil | Extraction Method: | Steam Distilled Essential Oil |
| Botanical Name: | <i>Juniperus communis</i> | Quality: | 100% Pure and Natural |
| Used Part: | Berries | Batch Number: | Varies |
| CAS No.: | 8002-68-4; 84603-69-0 | Manufacture Date: | Varies |
| INCI Name: | Juniperus Communis (Juniper) Berry Oil | Best Before: | Varies |

| IDENTIFICATION | | SPECIFICATION | STANDARDS | RESULT |
|----------------|------------------------------------|-----------------------------------------------------------|-----------|----------|
| Physical | Appearance | Colorless to pale yellow liquid | - | Complies |
| | Odour | Sweet, fresh, woody-green, slightly terpenic aroma | - | Complies |
| | Refractive Index | 1.461 - 1.490 20°C | - | 1.478 |
| | Specific Gravity (g/mL) | 0.840 - 0.879 20°C | - | 0.861 |
| | Optical Rotation (°) | -15° to +3° | - | Complies |
| | Solubility | Soluble in alcohols and fixed oils; Insoluble in water | - | Complies |
| Chemical | Lead (Pb) | < 10 ppm | - | Complies |
| | Arsenic (As) | < 2 ppm | - | Complies |
| | Mercury (Hg) | < 1 ppm | - | Complies |
| Microbial | Aerobic Mesophilic Bacterial Count | < 100 cfu/g | ISO 21149 | Complies |
| | Yeast & Mould | < 10 cfu/g | ISO 16212 | Complies |
| | Candida albicans | Negative | ISO 18416 | Complies |
| | Escherichia coli | Negative | ISO 21150 | Complies |
| | P. aeruginosa | Negative | ISO 22717 | Complies |
| | S. aureus | Negative | ISO 22718 | Complies |

| | | |
|------|-------------------|--------------------------------------------------------------------------------------|
| Else | Storage Condition | Keep in a tightly closed container in a cool and dry place, protected from sunlight. |
| | Shelf Life | When stored for more than 24 months, quality should be checked before use. |

