



## Certificate of Analysis

|                 |   |                    |                                      |
|-----------------|---|--------------------|--------------------------------------|
| Product Name:   | <b>Palo Santo Essential Oil</b>                     | Extraction Method: | <b>Steam Distilled Essential Oil</b> |
| Botanical Name: | <b><i>Bursera graveolens</i></b>                    | Quality:           | <b>100% Pure and Natural</b>         |
| Used Part:      | <b>Heartwood</b>                                    | Batch Number:      | <b>Varies</b>                        |
| CAS No.:        | <b>959130-05-3</b>                                  | Manufacture Date:  | <b>Varies</b>                        |
| INCI Name:      | <b>Bursera Graveolens (Palo Santo)<br/>Wood Oil</b> | Best Before:       | <b>Varies</b>                        |

| IDENTIFICATION   |                                       | SPECIFICATION   | STANDARDS | RESULT   |
|------------------|---------------------------------------|---|-----------|----------|
| <b>Physical</b>  | Appearance                            | Colorless to pale yellow liquid   | -         | Complies |
|                  | Odour                                 | Woody, sweet, fruity-balsamic,<br>resinous aroma with citrus undertones | -         | Complies |
|                  | Refractive Index                      | 1.460 - 1.492   20°C  | -         | 1.474    |
|                  | Specific Gravity (g/mL)               | 0.850 - 0.895   20°C  | -         | 0.868    |
|                  | Optical Rotation (°)                  | -12° to -3°   | -         | Complies |
|                  | Solubility                            | Soluble in alcohols and fixed oils;<br>Insoluble in water               | -         | Complies |
| <b>Chemical</b>  | Lead (Pb)                             | < 10 ppm  | -         | Complies |
|                  | Arsenic (As)                          | < 2 ppm   | -         | Complies |
|                  | Mercury (Hg)                          | < 1 ppm   | -         | Complies |
| <b>Microbial</b> | Aerobic Mesophilic<br>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 |

|             |                   |  |
|-------------|-------------------|--|
| <b>Else</b> | 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.           |

