

TECHNICAL DATA SHEET (TDS)

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| Product Name | GALANGAL ESSENTIAL OIL |
| Botanical Name | Alpinia galanga |
| CAS # | 8024-40-6 ; 84625-26-3 |
| EINECS # | 283- 399-6 |
| INCI Name | Alpinia Galanga Root Oil |

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|---------------------|-------------------------------|
| Part Used | Rhizomes |
| Extraction Method | Steam Distilled Essential Oil |
| Quality | 100% Pure and Natural |
| Note Classification | Middle to Top Note |

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> |
|-------------------------|--|
| Appearance | Pale yellow to orange yellow colored liquid |
| Odour | Fresh, penetrating, diffusive, sweet-woody, warm, somewhat spicy aroma |
| Refractive Index | 1.455 - 1.515 @ 20°C |
| Specific Gravity (g/mL) | 0.920 - 0.960 @ 20°C |
| Optical Rotation (°) | -10° to -3.5° |
| Solubility | Soluble in alcohols and fixed oils; Insoluble in water |

| <u>MICROBIAL ANALYSIS</u> | <u>SPECIFICATIONS</u> | <u>STANDARDS</u> |
|------------------------------------|-----------------------|------------------|
| Aerobic Mesophilic Bacterial Count | < 100 CFU/g | ISO 21149 |
| Yeast and Mould | < 10 CFU/g | ISO 16212 |
| Candida albicans | ABSENT / 1g | ISO 18416 |
| Escherichia coli | ABSENT / 1g | ISO 21150 |
| Pseudomonas aeruginosa | ABSENT / 1g | ISO 22717 |
| Staphylococcus aureus | ABSENT / 1g | ISO 22718 |

| <u>HEAVY METAL TESTS</u> | <u>SPECIFICATIONS</u> | <u>STANDARDS</u> |
|----------------------------|-----------------------|------------------|
| Lead: Pb (mg/kg or ppm) | < 10 ppm | na |
| Arsenic: As (mg/kg or ppm) | < 2 ppm | na |
| Mercury: Hg (mg/kg or ppm) | < 1 ppm | na |

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