

### **CERTIFICATE OF ANALYSIS (COA)**

<b>Product Name</b>	<b>ALLSPICE (PIMENTO BERRY) ESSENTIAL OIL</b>
<b>Botanical Name</b>	Pimenta dioica (synonym Pimenta officinalis)
<b>CAS #</b>	8006-77-7 ; 84929-57-7
<b>EINECS #</b>	284-540-4
<b>INCI Name</b>	Pimenta Officinalis (Pimento) Berry Oil

<b>Part Used</b>	Berries (Fruits)
<b>Extraction Method</b>	Steam Distilled Essential Oil
<b>Quality</b>	100% Pure and Natural
<b>Note Classification</b>	Middle Note

<b><u>PROPERTIES</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>RESULTS</u></b>
<b>Appearance</b>	Pale yellow to amber colored liquid	CONFORMS
<b>Odour</b>	Warm, rich, spicy odour with notes of pepper, cloves and	CONFORMS
<b>Refractive Index</b>	1.525 - 1.545 @ 20°C	1.532
<b>Specific Gravity (g/mL)</b>	1.018 - 1.050 @ 25°C	0.020
<b>Optical Rotation (°)</b>	-4° to 0°	CONFORMS
<b>Solubility</b>	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

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

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

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