



ATRIN

Each drop has a unique mission

**CERTIFICATE OF ANALYSIS (COA)
THYME ESSENTIAL OIL**

Manufacturing Date: 2-February-2024 | Expiry Date: 2-February-2026

BATCH NO.: EOI10070481

PRODUCT IDENTITY

Product Name	Thyme essential oil
Material	Leaf
Common Name	Thyme
Botanical Name	<i>Zataria multiflora</i>
Extraction process	Steam Distillation
Preservative	NIL
Pesticides Residue	Negative
Appearance	Light yellow
Solubility	soluble in oil
Shelf Life	2 years
Storage	Cool & Dark place
Report No.	EOI10070481
Batch Size	1000 Kg
Extraction Solvent	Distilled Water

PHYSICAL & CHEMICAL CHARACTERISTIC

Item	Test	Results	Specification Method
Description	Complies	Liquid, Colorless to light yellow	Visual
Odour & Taste	Complies	colorless to pale yellow Characteristic odor	Visual
Optical Rotation	4.0	-	USP 781
Refractive Index	1.505	-	Refractometer/Ph.Eur
Relative Density at 20 °C	0.9312	-	USP 841



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ACTIVE COMPOUNDS TEST

Item	Test Results	Unite	Method
Thymol	37.15	%	GC-MS
Carvacrol	27.16	%	GC-MS

HEAVY METAL TEST

Item	Specification	Method	Test Results
Total Heavy Metals (ppm)	NMT- 10 ppm	USP <730>	Complies
a) Lead (Pb)	NMT- 3.0 ppm	USP <730>	Complies
b) Arsenic (As)	NMT-1.0 ppm	USP <730>	Complies
c) Cadmium (Cd)	NMT-1.0 ppm	USP <730>	Complies
d) Mercury (Hg)	NMT- 0.5 ppm	USP <730>	Complies

MICROBIOLOGICAL TEST

Item	Specification	Method	Test Results
Total plate	count NMT-5000 Cfu/gm	Eur.Ph <2.6.12>	10 Cfu/g
E.coli	Absent	Eur.Ph <2.6.13>	Absent
Salmonella	Absent	Eur.Ph <2.6.13>	Absent
Pseudomonas aeruginosa	Absent	Eur.Ph <2.6.13>	Absent
Staphylococcus aureus	Absent	Eur.Ph <2.6.13>	Absent
Yeast & Mould counts	NMT-500 Cfu/gm	Eur.Ph <2.6.12>	Less than 10 Cfu/g



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