

**ATRIN**

Each drop has a unique mission

CERTIFICATE OF ANALYSIS (COA)
ANISE ESSENTIAL OIL
Manufacturing Date: 01-2024 | Expiry Date: 01-2026
BATCH NO.: EOI10070291

PRODUCT IDENTITY

Product Name	Anise essential oil
Material	Seed
Common Name	Anise
Botanical Name	<i>Pimpinella anisum</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.	EOI10070291
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	+0.3	-2 to +2	USP 781
Refractive Index	1.493	1.498 To 1.504	USP 831
Relative Density at 20 °C	0.930	0.924 To 0.945	USP 841



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ACTIVE COMPOUNDS TEST

Item	Test Results	Unite	Method
trans-Anethole	86.7	%	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>	37 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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