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Wholesale Botanics
10227 Southard Dr,
Beltsville, MD 20705

Wholesale Botanics, Inc.

SUPPLIER NAME: WHOLESale BOTANICS, INC
EMAIL: compliance@wholesalebotanics.com
PRODUCT NAME: Black Pepper Essential Oil
MANUFACTURE DATE: 06/19/2024
LOT NUMBER: HMS06192024

CERTIFICATE OF ANALYSIS

Analytical Data

Botanical Name	Piper nigrum L.	Criterion of Detection	Pharmacopoeia
Parts Used	Peppercorns	Batch Number	PEBHMBPNINC002A
		Expiry Date	06/19/2026
Extraction Method	Steam Distillation	Ingredients	Piper nigrum (Black Pepper) Oil

Item	Result	Standard
Appearance	Complies	Colorless to light greenish yellow liquid
Smell	Complies	Unique aroma of black pepper
25°C Relative Density	0.873	0.864 - 0.884
20°C Refractive Index	1.484	1.470 - 1.488
20°C Optical Rotation	-15.5°	-1° to -23°

Additional Data

Item	Result	Standard
Total Heavy Metals	Complies	< 10 ppm
Arsenic	Complies	< 1 ppm
Lead	Complies	< 3 ppm
Mercury	Complies	< 0.1 ppm
Cadmium	Complies	< 1 ppm