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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: Ginger Root Essential Oil
MANUFACTURE DATE: 11/14/2023
LOT NUMBER: HMS11142023

CERTIFICATE OF ANALYSIS

Analytical Data

Botanical Name	Zingiber officinale	Criterion of Detection	Pharmacopoeia
Parts Used	Root	Batch Number	GIRHMPZOINC001A
		Expiry Date	09/07/2026
Extraction Method	Steam Distillation	Ingredients	Zingiber officinale (Ginger) Oil

Item	Result	Standard
Appearance	Complies	Pale yellow to brownish liquid
Smell	Complies	Unique aroma of ginger
25°C Relative Density	0.876	0.870 - 0.882
20°C Refractive Index	1.473	1.480 - 1.494
20°C Optical Rotation	-31.3°	-24° to -58°

Additional Data

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