

# Certificate of Analysis

Organic Ginger Root Powder

(GOZ-004)

*Zingiber officinale*

**Product:** Organic\* Ginger Root Powder  
**Botanical Name:** *Zingiber officinale*  
**Form/Plant Part:** Certified Organic Powder from Root  
**Lot number:** GOZ-004/2101/X-10  
**Manufacture Date:** 01/2021  
**Expiration Date:** 01/2024  
**Other Information:** \*Organic Certified  
Recognized by the USDA NOP.



Analysis	Specification	Result	Test Method
Identification	FTIR/TLC/Microscopy	Pass	FTIR/Microscopy
Appearance	Tan Powder	Pass	Organoleptic
Aroma	Ginger	Pass	Organoleptic
Particle Size	>90% at 60-mesh	94% at 60-mesh	USP<786>
Loss on Drying	≤10.0%	5.50%	USP<731>
Ash Content	<8%	3.95%	USP<561>
Density (Tapped)	0.35 - 0.75 g/ml	0.53 g/ml	USP<616>
Country of Origin	USA, Egypt, India, China, S. America	Peru	Origin Report
Heavy Metals	<5ppm Total	<1ppm	ICP-MS/AOAC/USP
	As: <2ppm	0.024ppm	ICP-MS/AOAC/USP
	Cd: <1ppm	0.113ppm	ICP-MS/AOAC/USP
	Hg: <1ppm	ND (<0.010ppm)	ICP-MS/AOAC/USP
	Pb: <3ppm	0.208ppm	ICP-MS/AOAC/USP
Excipients/Carriers	None	Pass	Production Report
Endangered Spp.	Negative	Pass	Origin Report
GMO State	Non-GMO	Pass	Origin Report
Extraneous Metal	Negative	Pass	Magnetic Screen
Pesticides	Meets USP Spec	Pass (ND)	GC-USP<561>
Total Plate Count	<1,000,000 cfu/g	240,000 cfu/g	(AOAC 990.12)
Yeast	<10,000 cfu/g	<100 cfu/g	(AOAC 997.02)
Mold	<10,000 cfu/g	<100 cfu/g	(AOAC 997.02)
Enterobacteriaceae	<1000 cfu/g	<100 cfu/g	(AOAC 2003.01)
Coliform	<100 cfu/g	Negative (<100 cfu/g)	(AOAC 991.14)
E. Coli	Negative/10g	Negative/10g	(AOAC 991.14)
Salmonella	Negative in 25g	Negative in 25g	(AOAC 998.09)
Sterilization	Dry or Steam Heat	Steam Heat	Production Report

QC Director:

2/5/2021

NOTE: Very hygroscopic; keep inside packaging tightly closed when not in use.  
CAUTION: Avoid breathing dust. Avoid contact with eyes and skin. Wash thoroughly after handling product.  
MANUFACTURING USE ONLY: Store in a cool, dry place. Keep packaging tightly closed when not in use. Analytical results derived from in-house testing, independent analysis, and/or manufacturer provided data. Final product suitability is at the sole discretion of the buyer.

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