

212 N Jefferson Unit 12A Ava, Mo 65608, USA / Phone: 1-573-465-0612

## GINGER EXTRACT POWDER GINGEROL 5%

## **CERTIFICATE OF ANALYSIS**

LOT: BN230217/BE

**QA Signature:** Steven Konert

Manufacture Date: February 17, 2023 Expiration Date: February 16, 2026

Specification	Parameter	Result	Method
Total Gingerols	NLT 5.0%	5.02%	HPLC    USP<621>
6-Gingerol	Report Only	2.24%	HPLC    USP<621>
8-Gingerol	Report Only	0.51%	HPLC    USP<621>
6-Shogaol	Report Only	0.64%	HPLC    USP<621>
10-Gingerol	Report Only	0.77%	HPLC    USP<621>
10-Shogaol	Report Only	0	HPLC    USP<621>
8-Shogaol	Report Only	0.84%	HPLC    USP<621>
Identification	Correspond to standard	Conforms	TLC    USP<201>
	Physica	l Characteristics	
Odor	Unique smell of ginger	Conforms	Organoleptic
Taste	Unique taste of ginger	Conforms	Organoleptic
Particle size	≥ 95% through 60 mesh	Conforms	Analytical sieving    USP <7862
Loss on Drying	NMT 5.0%	3.80%	USP <731> (80°C, 4h)
Total Ash	NMT 5.0%	0.19%	USP <561>
Bulk Density	Report Only	52.96g/100ml	USP <616> Method I
Tapped Density	Report Only	71.34g/100ml	USP <616> Method I
	Chemico	ıl Characteristics	
Heavy Metals	NMT 10 ppm	< 10ppm	USP <231> Method II
Lead (Pb)	NMT 2 ppm	Not Detected	ICP-MS    USP <233>
Arsenic (As)	NMT 2 ppm	0.267ppm	ICP-MS    USP <233>
Cadmium (Cd)	NMT 1 ppm	0.019ppm	ICP-MS    USP <233>
Mercury (Hg)	NMT 1 ppm	Not Detected	ICP-MS    USP <233>
	Microbiolog	jical Characteristics	
Total Plate Count	≤ 10,000 cfu/g	< 1000 cfu/g	USP<61>
Total Yeast & Mold	≤ 1,000cfu/g	< 100 cfu/g	USP<61>
E.Coli.	Negative/10g	Conforms	USP<62>
Salmonella	Negative/10g	Not Detected	USP<62>
S.aureus	Negative/10g	Not Detected	USP<62>

Shelf life is guaranteed for three years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Containers that have been opened should be tested at least yearly to ensure potency. Although Bulk Naturals Wholesale LLC. believes the above information to be accurate based on the information available to Bulk Naturals, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to using to verify that the product purchased from Bulk Naturals meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material are subject to Bulk Naturals Wholesale LLC. standard terms and conditions, which supersede any conflicting terms contained on the Buyer's purchase order or any document or instrument supplied by the Buyer.