



# Bulk Naturals Wholesale LLC

**bulknaturalswholesale.com**

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

## GINGER EXTRACT POWDER GINGEROL 5% CERTIFICATE OF ANALYSIS LOT: BN220802/BE

**Manufacture Date:** August 2, 2022

**Expiration Date:** August 1, 2024

**QA Signature:** Steven Konert

Specification	Parameter	Result	Method
Total Gingerol	≥5%	5.06%	HPLC    USP<621>
6-Gingerol	Report	2.43%	HPLC    USP<621>
8-Gingerol	Report	0.60%	HPLC    USP<621>
6-Shogaol	Report	0.48%	HPLC    USP<621>
10-Gingerol	Report	0.57%	HPLC    USP<621>
10-Shogaol	Report	Not Detected	HPLC    USP<621>
8-Shogaol	Report	0.98%	HPLC    USP<621>
Identification	Correspond to Standard	Conform	TLC    USP<201>
<b>PHYSICAL CHARACTERISTICS</b>			
Odor	Unique smell of ginger	Conform	Organoleptic
Taste	Unique taste of ginger	Conform	Organoleptic
Particle Size	NLT 95% Through 80 mesh	Conform	Analytical sieving   USP <786>
Loss on Drying	NMT 5.0%	3.40%	USP <731>
Total Ash	NMT 5.0%	0.06%	USP <561>
Bulk Density	Between 40-70g/100ml	46.12g/100ml	USP <616> Method I
Tapped Density	Between 50-90g/100ml	72.07g/100ml	USP <616> Method I
<b>CHEMICAL CHARACTERISTICS</b>			
Heavy Metals (as Pb)	NMT 10ppm	<10ppm	USP <231> Method II
<b>MICROBIOLOGICAL CHARACTERISTICS</b>			
Total Plate Count	NMT 10,000cfu/g	Conform	USP<61>
Yeast	NMT 1,000cfu/g	Conform	USP<61>
Mold	NMT 100cfu/g	Conform	USP<61>
Escherichia Coli	NMT 3.0 MPN/g	Conform	USP<62>
Salmonella	Not detected in (g) 10	Not Detected	USP<62>
Staphylococcus	Not detected in (g) 10	Not Detected	USP<62>

Shelf life is guaranteed for two 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.