



# Bulk Naturals Wholesale LLC

**bulknaturalswholesale.com**

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## APPLE CIDER VINEGAR POWDER

### CERTIFICATE OF ANALYSIS

LOT: BN220920/BE

**Manufacture Date:** September 20, 2022

**Expiration Date:** September 19, 2025

**QA Signature:** Steven Konert

Specification	Parameter	Method	Result
Content	Total Acids $\geq 5.0\%$	5.28	Titrimetry    USP <541>
Identification	Corresponds to standard	Conform	TLC    USP <201>
<b>PHYSICAL CHARACTERISTICS</b>			
Odors & Taste	Characterisris	Conform	Organoleptic
Particle Size	NLT 95% Through 80 mesh	99.80%	Analytical sieving    USP <786>
Bulk Density	Between 0.30 - 0.70g/ml	0.60g/ml	USP <616> Method I
Loss on Drying	NMT 10.0%	4.33%	USP <731>
Total Ash	NMT 10.0%	0.10%	USP <561>
<b>CHEMICAL CHARACTERISTICS</b>			
Residual Solvent	NMT 5,000ppm	Conform	GC    USP <467>
Pesticide Residue	Meet the requirements	Conform	GC    USP <561>
Arsenic (As)	NMT 2.0ppm	0.03ppm	ICP-MS    USP <233>
Lead (Pb)	NMT 2.0ppm	0.17ppm	ICP-MS    USP <233>
Cadmium (Cd)	NMT 1.0ppm	Not Detected	ICP-MS    USP <233>
Mercury (Hg)	NMT 1.0ppm	Not Detected	ICP-MS    USP <233>
<b>MICROBIOLOGICAL CHARCTERISTICS</b>			
Total Plate Count	NMT 10,000cfu/g	100cfu/g	USP <2021>
Total Yeast & Mold	NMT 1,cfu/g	< 10cfu/g	USP <2021>
E.Coli	Not Detected in(g) 10	Not Detected	USP <2022>
Salmonella	Not Detected in(g) 25	Not Detected	USP <2022>
Staphylococcus Aureus	Not Detected in(g) 10	Not Detected	USP <2022>
Storage	Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.		

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.