



Bulk Naturals Wholesale LLC

bulknaturalswholesale.com

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

95% CURCUMIN EXTRACT OF TURMERIC WITH PIPERINE PURE

CERTIFICATE OF ANALYSIS

LOT: BN220418/BE

Manufacture Date: April 18, 2022

QA Signature: Steven Konert

Expiration Date: April 17, 2025

Specification	Parameter	Result	Method
Content	Curcumin I: Curcumin	50.40%	HPLC USP<621>
	Curcumin II: Demethoxycurcumin	15.20%	HPLC USP<621>
	Curcumin III: Bisdemethoxycurcumin	29.70%	HPLC USP<621>
	Curcuminoids \geq 95.0%	95.30%	HPLC USP<621>
Identification	Correspond to standard	Conform	Mid-Infrared spectroscopy USP<854>
Physical Characteristics			
Solubility	Soluble in ethanol acetone & glacial acetic acid	Conform	Organoleptic
Particle Size	NLT 95% Through 80 mesh	Conform	Analytical sieving USP <786>
Loss on Drying	NMT 2.00%	0.45%	USP <731>
Total Ash	NMT 1.00%	0.32%	USP <561>
Bulk Density	Between 0.30~0.50g/ml	0.34g/ml	USP <616> Method I
Tapped Density	Between 0.50~0.90g/ml	0.52g/ml	USP <616> Method I
Chemical Characteristics			
Residual Solvent	NMT 5,000ppm	3,800ppm	GC USP <467>
Pesticide Residue	Meet the requirements	Conform	GC USP <561>
Heavy Metals (as Pb)	NMT 10ppm	< 10ppm	USP <231> Method II
Arsenic (As)	NMT 3ppm	0.38ppm	CP-MS
Lead (Pb)	NMT 2ppm	0.45ppm	CP-MS
Cadmium (Cd)	NMT 1ppm	0.08ppm	CP-MS
Mercury (Hg)	NMT 0.5ppm	0.07ppm	CP-MS
Microbiological Characteristics			
Total Plate Count	NMT 1,000cfu/g	60cfu/g	USP<61>
Total YEast & Mold	NMT 100cfu/g	20cfu/g	USP<61>
E.Coli	NMT 30MPN/100g	< 3MPN/100g	USP<62>
Salmonella	Not Detected in(g) 25	Not Detected	USP<62>
Staphylococcus Aureus	Not Detected in(g) 10	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.