



Hongda
Phytochemistry

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Headquarter: 1932 S Lynx Place, Ontario, CA 91761,US

Factory: No.2, Hongda Industrial District, Dacheng, Sanyuan, Xianyang, Shaanxi,China.

USA Warehouse: 1932 S. Lynx PL, Ontario, CA 91761,US

NJ Warehouse: 52 Butler Street, Unit A Elizabeth, NJ 07206

Certificate of Analysis

Turmeric Extract Curcuminoids 95% HPLC (Granular)

Batch No.	JHS-201026	Manufacturing Date	10/26/2020
Batch Quantity	1000KG	Expiration Date	10/25/2023
Botanical Source	<i>Curcuma longa L.</i>	Country of Origin	China
Appearance	Orange Yellow Granular	Part Used	Root
Solvents Used	Ethanol & Ethyl Acetate	Kosher Halal	Yes Yes

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Curcuminoids \geq 95%	95.62%	HPLC USP<621>
Content	Curcumin	92.91%	HPLC USP<621>
Content	Desmethoxycurcumin	2.13%	HPLC USP<621>
Content	Bisdemethoxycurcumin	0.58%	HPLC USP<621>
Identification	Correspond to standard	Conform	TLC USP<201>

PHYSICAL CHARACTERISTICS

Odor	Typical	Typical	Organoleptic
Taste	Typical	Typical	Olfactory
Particle Size	NLT 95% Through 20 mesh	100.00%	Analytical sieving USP <786>
Loss on Drying	NMT 5.00%	0.45%	USP <731>
Residue on Ignition	NMT 2.00%	0.06%	USP <561>
Bulk Density	Between 30-80g/100ml	63g/100ml	USP <616> Method I

CHEMICAL CHARACTERISTICS

Residual Solvent	NMT 5000ppm	Conform	GC USP <467>
Pesticide Residue	Meet the requirements	Conform	GC USP <561>
Heavy Metals(as Pb)	NMT 10ppm	Conform	USP <231> Method II
Arsenic (As)	NMT 2ppm	0.140ppm	ICP-MS
Lead (Pb)	NMT 2ppm	0.210ppm	ICP-MS
Cadmium(Cd)	NMT 1ppm	0.040ppm	ICP-MS
Mercury(Hg)	NMT 0.5ppm	0.020ppm	ICP-MS

MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT1000cfu/g	Conform	USP<61>
Total Yeast & Mold	NMT100cfu/g	Conform	USP<61>
E.Coli	Not Detected in(g) 10	Not Detected	USP<61>
Salmonella	Not Detected in(g) 25	Not Detected	USP<61>
Staphylococcus	Not Detected in(g) 10	Not Detected	USP<61>

Packing and Storage Polyethylene bag with cardboard drum. 25kg net.
Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Tested by: *Troy Cui* Date: 11/05/2020

Approved by: *Jack Joa* Date: 11/05/2020