



Hongda
Phytochemistry

Tel: +86(029)89611711,626-709-5642

Web: www.jhdcorp.com

E-mail: info@jhdcorp.com

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

Marigold Flower Extract Zeaxanthin 10% HPLC

Batch No.	YMHZ-201008	Manufacturing Date	10/08/2020
Batch Quantity	1000KG	Expiration Date	10/07/2023
Botanical Source	<i>Tagetes erecta L.</i>	Country of Origin	China
Appearance	Orange yellow Fine Powder	Part Used	Flower (100% Natural)
Solvents Used	Water&Ethanol	Carrier Used	None
Sterilization Method	Heat NON-IRR	Kosher Halal	Yes Yes

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Zeaxanthin \geq 10%	10.18%	HPLC USP<621>
Content	Lutein---	1.15%	HPLC USP<621>
Identification	Correspond to standard	Conform	TLC USP<201>

PHYSICAL CHARACTERISTICS

Particle Size	NLT 95% Through 80 mesh	98.40%	Analytical sieving USP <786>
Loss on Drying	NMT 8.00%	5.37%	USP <731>
Residue on Ignition	NMT 2.00%	0.73%	USP <561>
Bulk Density	Between 30-60g/100ml	46.00g/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	0.100ppm	ICP-MS
Lead (Pb)	NMT 2ppm	0.100ppm	ICP-MS
Cadmium(Cd)	NMT 1ppm	0.010ppm	ICP-MS
Mercury(Hg)	NMT 1ppm	0.010ppm	ICP-MS

MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT10000cfu/g	<10cfu/g	USP<61>
Total Yeast & Mold	NMT1000cfu/g	<10cfu/g	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: *Tracy Cui*

Date: 10/15/2020

Approved by: *Jack Jia*

Date: 10/15/2020