



**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

### Maca Root Extract Glucosinolates 0.6% HPLC

<b>Batch No.</b>	MK-210802	<b>Manufacturing Date</b>	08/02/2021
<b>Batch Quantity</b>	1000KG	<b>Expiration Date</b>	08/01/2024
<b>Botanical Source</b>	<i>Lepidium Meyenii Walp</i>	<b>Country of Origin</b>	Peru
<b>Appearance</b>	Dark Cream Fine Hygroscopic Powder	<b>Part Used</b>	100% Pure Root (100% Natural)
<b>Solvents Used</b>	Water	<b>Carrier Used</b>	None
<b>Sterilization Method</b>	Heat    NON-IRR	<b>Kosher    Halal</b>	Yes    Yes

<b>ITEMS</b>	<b>SPECIFICATION</b>	<b>RESULT</b>	<b>METHOD</b>
Content	Glucosinolates≥0.6%	0.67%	HPLC    USP<621>
Identification	Correspond to standard	Conform	TLC    USP<201>

#### PHYSICAL CHARACTERISTICS

Taste & Odor	Characteristic	Conform	Organoleptic
Solubility	Partially water soluble	Partially soluble	Visual
Particle Size	NLT 95% Through 60 mesh	100%	Analytical sieving    USP <786>
Loss on Drying	NMT 5.00%	4.80%	USP <731>
Bulk Density	Between 40-60g/100ml	47.00g/100ml	USP <616> Method I

#### CHEMICAL CHARACTERISTICS

Pesticide Residue	Meet the requirements	Conform	GC    USP <561>
Heavy Metals(as Pb)	NMT 10ppm	Conform	USP <231> Method II
Arsenic (As)	NMT 2ppm	0.153ppm 0.230ppm	ICP-MS
Lead (Pb)	NMT 2ppm	0.230ppm	ICP-MS
Cadmium(Cd)	NMT 1ppm	Not Detected	ICP-MS
Mercury(Hg)	NMT 1ppm		ICP-MS

#### MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT10000cfu/g	200cfu/g	
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. 20kg net.  
Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Tested by: *Troy Cui*

Date: 08/08/2021

Approved by: *Jack Joa*

Date: 08/08/2021