



**Hongda**  
Phytochemistry

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Rev 3

## Certificate of Analysis

### Inulin 90%

<b>Batch No.</b>	JF-200317	<b>Manufacturing Date</b>	3/17/2020
<b>Batch Quantity</b>	4000KG	<b>Expiration Date</b>	3/16/2023
<b>Botanical Source</b>	<i>Cichorium intybus L.</i>	<b>Country of Origin</b>	China
<b>Appearance</b>	White Fine Powder	<b>Part Used</b>	Root (100% Natural)
<b>Sterilization Method</b>	Heat    NON-IRR	<b>Kosher    Halal</b>	Yes    No

ITEMS	SPECIFICATION	RESULT	METHOD
Inulin (Dried basis)	≥90.0%	91.01%	FCC
Glucose+Fructose+Sucrose (Dried basis)	≤10.0%	8.99%	FCC
Identification	Correspond to standard	Conform	TLC    USP<201>

#### PHYSICAL CHARACTERISTICS

Odor	Odorless	Conform	Sensory
Taste	Slight sweet taste	Conform	Sensory
Particle Size	NLT 95% Through 40 mesh	98.80%	Analytical sieving    USP <786>
Loss on Drying	NMT 5.00%	3.18%	USP <731>
Residue on Ignition	NMT 0.20%	0.04%	USP <561>

#### CHEMICAL CHARACTERISTICS

Heavy Metals(as Pb)	NMT 10μg/g	Conform	USP <231> Method II
Arsenic (As)	≤1μg/g	≤0.05μg/g	ICP-MS
Lead (Pb)	≤1μg/g	≤0.1μg/g	ICP-MS
Cadmium(Cd)	≤0.5μg/g	≤0.01μg/g	ICP-MS
Mercury(Hg)	≤0.5μg/g	≤0.01μg/g	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 20kg or 25kg/Bag.

Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Tested by: *Tracy Cui*

Date: 03/24/2020

Approved by: *Jack Lo*

Date: 03/24/2020