



**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

### Shark Cartilage Powder

<b>Batch No.</b>	HD-211103	<b>Manufacturing Date</b>	11/3/2021
<b>Batch Quantity</b>	5000KG	<b>Expiration Date</b>	11/2/2024
<b>Source</b>	Shark Cartilage	<b>Country of Origin</b>	China
<b>Appearance</b>	White to Off White Fine Powder	<b>CAS No.</b>	9082-07-9

ITEMS	SPECIFICATION	RESULT	METHOD
Mucopolysaccharides	≥20%	20.19%	UV    USP34<197>
Chondroitin	15% ~ 20%	16.24%	CPC
Protein	≥30%	32.53%	K-D    USP34<1057>
Calcium	≤25%	18.72%	ICP-MS

#### PHYSICAL CHARACTERISTICS

Particle Size	NLT 90% Through 80 mesh	Conform	Analytical sieving    USP <786>
Loss on Drying	NMT 10.00%	6.88%	USP <731>

#### CHEMICAL CHARACTERISTICS

Heavy Metals(as Pb)	NMT 10ppm	Conform	USP <231> Method II
Arsenic (As)	NMT 2ppm	Conform	ICP-MS
Lead (Pb)	NMT 2ppm	Conform	ICP-MS
Cadmium(Cd)	NMT 1ppm	Conform	ICP-MS
Mercury(Hg)	NMT 1ppm	Conform	ICP-MS

#### MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT 10000cfu/g	800cfu/g	USP<61>
Total Yeast & Mold	NMT 1000cfu/g	30cfu/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: 11/14/2021

Approved by: *Jack Joa* Date: 11/14/2021