



# JHD CORP

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Manufacturer(China): Hongda Industrial District, Xianyang, Shaanxi  
Office&Warehouse(Netherlands): Piet Stuurmanweg 7, 2742 JX Waddinxveen

## Certificate of Analysis

### Liposomal Ginger Extract Gingerols 10% HPLC

<b>Batch No.</b>	ZZSJ260107	<b>Manufacturing Date</b>	January 7, 2026
<b>Batch Quantity</b>	600KG	<b>Expiration Date</b>	January 6, 2029
<b>Botanical Source</b>	<i>Zingiber officinale Roscoe</i>	<b>Country of Origin</b>	China
<b>Appearance</b>	Light Yellow Powder	<b>Part Used</b>	Root (100% Natural)
<b>Sterilization Method</b>	Heat    NON-IRR		

Items	Specification	Result	Method
Total Gingerols	NLT 10.0%	10.15%	HPLC    USP<621>
Identification	Correspond to standard	Conform	TLC    USP<201>

#### Physical Characteristics

Odor	Characteristic	Conform	Organoleptic
Taste	Characteristic	Conform	Organoleptic
Loss on Drying	NMT 5.00%	3.30%	USP <731>
Total Ash	NMT 5.00%	2.15%	USP <561>

#### Chemical Characteristics

Heavy Metals (as Pb)	NMT 10ppm	Conform	USP <231> Method II
Arsenic (As)	NMT 2ppm	0.0860ppm	ICP-MS    USP <233>
Lead (Pb)	NMT 2ppm	0.4421ppm	ICP-MS    USP <233>
Cadmium (Cd)	NMT 1ppm	0.0390ppm	ICP-MS    USP <233>
Mercury (Hg)	NMT 1ppm	0.0015ppm	ICP-MS    USP <233>

#### Microbiological Characteristics

Total Plate Count	NMT 10,000cfu/g	300cfu/g	USP<2021>
Total Yeast & Mold	NMT 1,000cfu/g	<10cfu/g	USP<2021>
E. Coli	Not Detected in(g) 10	Not Detected	USP<2022
Salmonella	Not Detected in(g) 25	Not Detected	USP<2022
Staphylococcus	Not Detected in(g) 10	Not Detected	USP<2022

#### Packing and Storage

Polyethylene bag with cardboard drum. 25kg net.  
Store in tight, light-resistant containers and keep in a cool, dry and well-ventilated place. Keep always from strong direct light sunlight, moisture and excessive heat.

Tested by: *Tracy Cui* Date: January 16, 2026 Approved by: *Jack Jia* Date: January 16, 2026

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