



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

Benfotiamine Powder

Batch No.	202107006	Manufacturing Date	July 26, 2021
Batch Quantity	500KG	Expiration Date	July 25, 2023
Appearance	White crystalline powder	Country of Origin	China
CAS No.	22457-89-2	Molecular Formula	C19H23N4O6PS
ITEMS	SPECIFICATION	RESULT	METHOD
Purity	≥98%	99.40%	USP
Identification	IR spectra shows the similarity between sample and standard	Passed	IR Spectra
	The retention time of the major peak corresponds with it of the reference standard	Passed	USP
RELATED SUBSTANCE			
Benzoic Acid	≤0.15%	Passed	In House
Thiamine	≤0.15%	Passed	In House
Total impurities	≤1.0%	Passed	In House
PHYSICAL CHARACTERISTICS			
Loss on Drying	≤1.50%	0.30%	USP <731>
Solubility	Colorless to pale -yellow clear solution	Passed	In House
Melting Point	≥195.0°C	202.5°C	In House
Chloride	≤0.053%	Passed	In House
Sulfate	≤0.011%	Passed	In House
CHEMICAL CHARACTERISTICS			
Heavy Metals(as Pb)	≤20ppm	Passed	USP <231> Method II
Arsenic (As)	≤1ppm	< 1ppm	ICP-MS
Lead (Pb)	≤1ppm	< 1ppm	ICP-MS
Cadmium(Cd)	≤1ppm	< 1ppm	ICP-MS
Mercury(Hg)	≤0.1ppm	<0.1ppm	ICP-MS
MICROBIOLOGICAL CHARACTERISTICS			
Total Plate Count	≤1000cfu/g	Passed	USP<61>
Total Yeast & Mold	≤100cfu/g	Passed	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: *Troy Cui*

Date: August 1, 2021

Approved by: *Jack Joa*

Date: August 1, 2021