

Chengdu Pentament Bio-Engineering Co., Ltd.

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CERTIFICATE OF ANALYSIS

Product Name	Berberine HCl	Batch Number	WYBE20230423
Country Of Origin	China	Batch Quantity	1000KGS
Manufacturing Date	Apr. 23, 2023	Retest Date	Apr. 22, 2026

ITEM	SPECIFICATION	RESULT	TEST METHOD
Physical Description			
Appearance	Yellow fine powder	Yellow fine powder	Visual
Odor	Characteristic	Characteristic	Organoleptic
Taste	Characteristic	Characteristic	Olfactory
Particle size	NLT 90% through 80 mesh	98.1%	USP<786>
Chemical Tests			
Berberine HCl	≥97.0%	97.58%	Titration
Identification	Correspond to the RS	Correspond to the RS	TLC
Loss on drying	≤12.0%	10.85%	USP<731>
Ash	≤0.5%	0.17%	USP<561>
Total Heavy Metals	≤10 ppm	<10 ppm	USP<231> Method II
Lead (Pb)	≤1.0 ppm	0.0501 ppm	ICP-MS
Arsenic (As)	≤3.0 ppm	0.1614 ppm	ICP-MS
Cadmium (Cd)	≤1.0 ppm	0.1312 ppm	ICP-MS
Mercury (Hg)	≤1.0 ppm	0.0618 ppm	ICP-MS
Microbiology Control			
Aerobic bacterial count	≤10,000 cfu/g	50 cfu/g	USP<2021>
Total Yeast & Mold	≤1,000 cfu/g	15 cfu/g	USP<2021>
Escherichia coli	Negative	Not Detected	USP<2022>
Salmonella	Negative	Not Detected	USP<2022>
Staphylococcus	Negative	Not Detected	USP<2022>
Conclusion	Conforms to Specification		

Storage: Store in tightly sealed and preferably full containers in cool, dry and ventilated area.

Shelf Life: 36 months under above conditions, and kept in its unopened original packaging.

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Approved: Charlie Wang

Date: Apr. 28th 2023

