



JHD CORP

Email: info@jhdcorp.com

Website: www.jhdcorp.com

Office&Warehouse(USA): 2077 S Vineyard Ave, Ontario, CA 91761

Office&Warehouse(USA): 35 E Park Dr, Westampton, NJ, 08060

Office(China): Room 1307, Shenglang International, Xi'an, Shaanxi

Manufacturer(China): Hongda Industrial District, Xianyang, Shaanxi

Office&Warehouse(Netherlands): Piet Stuurmanweg 7, 2742 JX Waddinxveen

Certificate of Analysis

Creatine Monohydrate 99.5~102.0% HPLC

Batch No.	20251223	Manufacturing Date	December 23, 2025
Batch Quantity	21,250KG	Expiration Date	December 22, 2028
Appearance	White crystalline powder	Country of Origin	China
Execution Standards	USP-NF2024		
Items	Specification	Result	Method
Content (on the dried basis)	99.5~102.0%	101.12%	HPLC USP<621>
Identification	A. IR: The infrared absorption spectrum is concordant with the reference spectrum.	Positive	IR USP<197K>
	B. HPLC: The retention time of the main peak of the test solution was consistent with the reference solution.	Positive	HPLC USP<621>
Related Substances	1. Dicyandiamide ≤50ppm	49ppm	HPLC USP<621>
	2. Creatinine ≤100ppm	223ppm	HPLC USP<621>
	3. Dihydrothiazine ≤5ppm	Not Detected	HPLC USP<621>
	4. Other miscellaneous ≤0.1%	Not Detected	HPLC USP<621>
	5. Sum of other Miscellaneous ≤1.5%	Not Detected	HPLC USP<621>
	6. Total Impurities ≤2.0%	0.0070%	HPLC USP<621>
Physical Characteristics			
Odor	Odorless	Conform	Organoleptic
Particle Size	NLT 70% Through 200 mesh	73.00%	Analytical sieving USP <786>
Loss on Drying	10.5~12.0%	11.30%	USP <731>
Residue on Ignition	NMT 0.1%	0.03%	USP <281>
Bulk Density	NLT 40g/100ml (200 mesh)	54g/100ml (200 mesh)	USP <616> Method I
Tapped Density	NLT 55g/100ml (200 mesh)	73g/100ml (200 mesh)	USP <616> Method I
Chemical Characteristics			
Test on Sulfuric Acid	No Carbonization	Conforms	USP <271>
Sulfate (SO ₄ ²⁻)	NMT 0.03%	<0.03%	USP <221>
Cyanide	NMT 1ppm	Not Detected	Colorimetry
Heavy Metals (as Pb)	NMT 10ppm	<10ppm	USP <231> Method II
Arsenic (As)	NMT 1ppm	<1ppm	ICP-MS USP <233>
Lead (Pb)	NMT 1ppm	0.001ppm	ICP-MS USP <233>
Cadmium (Cd)	NMT 1ppm	<1ppm	ICP-MS USP <233>
Mercury (Hg)	NMT 0.5ppm	<0.01ppm	ICP-MS USP <233>
Microbiological Characteristics			
Total Plate Count	NMT 5,000cfu/g	<10cfu/g	USP<2021>
Total Yeast & Mold	NMT 500cfu/g	<10cfu/g	USP<2021>
E. Coli	Not Detected in(g) 10	Not Detected	USP<2022>
Salmonella	Not Detected in(g) 10	Not Detected	USP<2022>
Staphylococcus aureus	Not Detected in(g) 10	Not Detected	USP<2022>

Polyethylene bag with cardboard drum. 25kg net.

Packing and Storage 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: *Troy Liu*

Date: January 1, 2026

Approved by: *Jack Jia*

Date: January 1, 2026

Tel: +1-626-709-5642

Web: www.jhdcorp.com

E-mail: info@jhdcorp.com