

INNER MONGOLIA BIOSYNTHESIS CHEMICAL CO., LTD.

CERTIFICATE OF ANALYSIS

Product Name	Creatine Monohydrate 200 mesh	Testing date	2025.09.10
Formula	C ₄ H ₉ N ₃ O ₂ ·H ₂ O	Batch Size	9000 Kg
Source	100% Veg	Packaging	25 Kg
Test Item	Standard	Result	Test Method
Appearance	White powder	White powder	Visual
	The testing samples's infrared absorption spectrum should be consistent with the reference map	Conformed	USP<197K>
Identification	The retention time of the major peak of the Sample solution corresponds to that of the Standard solution, as obtained in the Assay	Conformed	USP<621>
Content Assay (dry basis)	98.5-101.0%	99.51 %	USP<621>
Loss on drying	10.5-12.0%	11.51%	USP<731>
Creatinine	≤100ppm	91ppm	USP<621>
Dicyandiamide	≤50ppm	39ppm	USP<621>
Dihydrotriazine	≤0.0005%	None-Detectable	USP<621>
Any unspecified impurity	≤0.1%	None-Detectable	USP<621>
Total unspecified impurities	≤1.5%	None-Detectable	USP<621>
Total impurities	≤2.0%	0.015%	USP<621>
Sulfate	≤0.03%	Conformed	USP<221>
Residue on Ignition	≤0.1%	0.01%	USP<281>
Bulk Density	≥400g/L	440g/L	USP<616>
Tapped Density	≥550g/L	700g/L	USP<616>
Test Of Sulfuric Acid	No Carbonation	Conformed	USP<271>
Heavy Metals	≤10ppm	Conformed	USP<231>
Lead	≤0.1ppm	Conformed	AAS
Arsenic	≤1ppm	Conformed	AAS
Mercury	≤0.1ppm	Conformed	AAS
Cadmium	≤1ppm	Conformed	AAS
Cyanide	≤1ppm	None-Detectable	Colorimetry
Particle size	≥90% through 200 mesh	95%	USP<786>
Total Bacterial Count	≤100cfu/g	<10cfu/g	USP<2021>
Yeast & Mould	≤100cfu/g	<10cfu/g	USP<2021>
E.Coli	Not detected/10g	Conformed	USP<2022>
Salmonella	Not detected/10g	Conformed	USP<2022>
Staphylococcus Aureus	Not detected/10g	Conformed	USP<2022>
Manufacturing Date	2025.09.09	Expiry Date	2028.09.08
BATCH NO.	20250909	FINAL CONCLUSION	QUALIFIED
Analyst	J Wang	Section Chief	Chang Li

Conclusion: The Product passed the test as per International Standards.