

JIANGSU KHONOR CHEMICALS CO.,LIMITED

CERTIFICATE OF ANALYSIS

Product Name	Creatine Monohydrate	Testing date	2024.09.04
Formula	C ₄ H ₉ N ₃ O ₂ ·H ₂ O	Particle Size	200 mesh
Test Item	Standard	Result	Test Method
Appearance	White powder	White powder	Visual
Identification	The testing samples's infrared absorption spectrum should be consistent with the reference map	Conformed	USP<197K>
	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)	99.5-102.0%	100.3%	USP<621>
Loss on drying	10.5-12.0%	11.2%	USP<731>
Creatinine	≤100ppm	24ppm	USP<621>
Dicyandiamide	≤50ppm	26ppm	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%	0.0050%	USP<621>
Sulfate	≤0.03%	Conformed	USP<221>
Residue on Ignition	≤0.1%	0.02%	USP<281>
Bulk Density	≥400g/L	490g/L	USP<616>
Tapped Density	≥550g/L	750g/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	≤0.01ppm	0.005ppm	AAS
Cadmium	≤1ppm	Conformed	AAS
Iron	≤1ppm	NA	AAS
Cyanide	≤1ppm	None-Detectable	Colorimetry
Particle size	≥70% through 200 mesh	75%	USP<429>
Total Bacterial Count	≤100cfu/g	65cfu/g	USP<2021>
Yeast & Mould	≤100cfu/g	<10cfu/g	USP<2021>
E.Coli	Not detected/10g	Not detected	USP<2022>
Salmonella	Not detected/10g	Not detected	USP<2022>
Staphylococcus Aureus	Not detected/10g	Not detected	USP<2022>
Manufacturing Date	2024.08.29	Expiry Date	2026.08.28
BATCH NO.	A20240820C	FINAL CONCLUSION	QUALIFIED
Analyst	潘丹	Section Chief	张国浩

Notice: Preserve in tight, light-resistant containers.