

INNER MONGOLIA CHENGXIN YONGAN CHEMICAL CO., LTD.

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CERTIFICATE OF ANALYSIS

DATE OF CERTIFICATE: 2023.02.07

Product Name	Creatine Monohydrate	BATCH NO.	20230201C
Analysis Standard	In-House Standard	Quantity	13.5MT/540Cartons
Manufacturing Date	2023.02.01	PO/IMP NO	8068167/88446
Expiry Date	2025.01.31	Container No.	GAOU2144311
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)	99.9-102.0%	100.33%	USP<621>
Loss on drying	10.5-11.5%	11.20%	USP<731>
Creatinine	≤50ppm	23ppm	USP<621>
Dicyandiamide	≤50ppm	25ppm	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%	0.0048%	USP<621>
Sulfate	≤0.03%	Conformed	USP<221>
Residue on Ignition	≤0.1%	0.06%	USP<281>
Bulk Density	400-550g/L	440g/L	USP<616>
Tapped Density	550-900g/L	850g/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	Conformed	Colorimetry
Particle size	≥70% through 200 mesh	79%	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>
CAS NO.	6020-87-7	FINAL CONCLUSION	QUALIFIED
Reporter	Lan Xiaoting	Section Chief	Wang Yongmin

Notice: Preserve in tight, light-resistant containers.