

**INNER MONGOLIA CHENGXIN YONGAN CHEMICAL CO., LTD.**

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Address: Lantai Road North, Wusitai Town, Alxa Zuoqi Economic Development Zone, Alxa City, Inner Mongolia Province.

**CERTIFICATE OF ANALYSIS**

Product Name	Creatine Monohydrate	Testing date	2022.04.18
Formula	C <sub>4</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> ·H <sub>2</sub> 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%	100.43%	USP<621>
Loss on drying	10.5-12.0%	11.08%	USP<731>
Creatinine	≤100ppm	42ppm	USP<621>
Dicyanamide	≤50ppm	11ppm	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%	0.0053%	USP<621>
Sulfate	≤0.03%	Conformed	USP<221>
Residue on Ignition	≤0.1%	0.04%	USP<281>
Bulk Density	≥400g/L	430g/L	USP<616>
Tapped Density	≥550g/L	820g/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	73%	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	2022.04.12	Expiry Date	2024.04.11
BATCH NO.	20220412C	FINAL CONCLUSION	QUALIFIED
Analyst	王小娟	Section Chief	李为民

Notice: Preserve in tight, light-resistant containers

QUANTITY: 12.5MT

内蒙古诚信永安化工有限公司  
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胡兴哲