

## 西安天丰生物科技股份有限公司

XI'AN NATURAL FIELD BIO-TECHNIQUE CO.,LTD.

办公地址:西安市高新区科技三路57号融城云谷B座5层 Tel:+86-29-8797 3630

Office: 5th Floor, Building B, No.57, Keji 3rd Road, High-Tech Zone, Xi'an, 710075, China

E-mail: sales@natural-field.com Web:www.natural-field.com

## **CERTIFICATE OF ANALYSIS**

Product Name	CreatineMonohydrate	BatchNumber	GA35-Y-250601	
CAS No.	6020-87-7	MeshSize	200mesh	
Reference Standard	CurrentUSP	BatchSize	1000kg	
Molecular Formula	C4H9N3O2.H2O	ManufacturingDate	Jun.05,2025	
Molecular Weight	149.15	Re-TestDate	Jun.04,2027	
Storage Condition:	age Condition: Preserve in tight, light-resistant containers.			

No.	TEST ITEM		SPECIFICATION	RESULT
1	Description		White powder.	White powder
2	Identification	ByIR	Test infrared spectrum of the sample should concordant with the infrared spectrum of the Creatine reference standard obtained in same manner.	Conform
		By HPLC	The retention time of the major peak in the Sample solution corresponds to that of the Standard solution, as obtained in the Assay.	Conform
3	Solubility		Slightly soluble in water; insoluble in alcohol, in ether.	Conform
4	Loss on drying		10.5% - 12.5%	11.0%
5	Residue on ignition		NMT 0.1%	0.1%
6	Chloride and Sulfate		NMT 0.1%	Conform
7	Bulk Density		True value	441g/L
8	Tapped Bulk Density		True value	833g/L
9		Dicyandiamide	NMT 0.01%	0.0002%
	Related impurities	Dihydrotriazine	NMT 0.0005%	Not Detected
		Creatinine	NMT 0.01%	0.0044%
		Any unspecified impurity	NMT 0.10%	0.01%
		Total unspecified impurities	NMT 1.5%	0.01%
		Total impurities	NMT 2.0%	0.01%
10			≤ 1000cfu/g	Conform



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1	Microbiologi cal limit test	Total aerobic microbial count		
	car mint test	Total molds and yeasts	≤100cfu/g	Conform
		Escherichia coli	Absent	Conform
		Salmonella species	Absent	Conform
		Staphylococcvs aureus	Absent	Conform
		1	C4H9N3O2.H2O 98.0%~102.0%。	
11	Assay		98.0% $\sim$ 102.0% of CHNO.HO $^{4932}_{2}$ calculated on the dried basis.	99.8%
Conclusion		Conclusion	USP - All items meet the USP.	Rio technique a

Tested by:Tiantian Wang

Checked by: Yuanmeng Geng

