



CERTIFICATE OF ANALYSIS

Product Name: Creatine Monohydrate	Quantity: 3mt		Batch No:C20024111018
Producing date:2024.11.03	Testing date: 2024.11.04		Expiry date: 2026.11.02
Reference Standard:USP-NF2024	Package: 25kg/Carton		Mesh Size:200Mesh
Items	Standards	Test Results	Test Methods
Appearance	White Powder	White Powder	Visual check
Identification	The retention time of the major peak corresponds	Positive	HPLC
Assay(on the dried basis)	98.0%~102.0%	99.96%	USP<621>HPLC
Residue on Ignition	≤0.1%	0.08%	USP<281>
Sulphates	≤0.1%	<0.03%	USP<221>
Chloride	≤0.1%	<0.03%	USP<221>
Dicyandiamide	≤50ppm	20.61	USP<621>HPLC
Creatinine	≤100ppm	53.64	USP<621>HPLC
Dihydrotriazine	≤5ppm	ND	USP<621>HPLC
Any unspecified impurity	≤0.1%	ND	USP<621>HPLC
Total unspecified impurities	≤1.5%	ND	USP<621>HPLC
Related Substances	≤2.0%	0.007%	USP<621>HPLC
Loss on drying	10.5~12.5%	11.30%	USP<731>
Bulk density	≥400g/L	450g/L	USP<616>
Tapped density	≥500g/L	820g/L	USP<616>
Test on sulfuric acid	No carbonization	Conforms	USP<271>
Heavy Metals	≤10ppm	<10ppm	GB 5009.74
Lead	≤0.5ppm	<0.5ppm	GB 5009.12
Arsenic	≤0.5ppm	<0.5ppm	GB 5009.11
Cyanide	≤1ppm	<1ppm	GB 5009.36
Total plate Count	≤100cfu/g	<100cfu/g	GB 4789.2
Yeast & Mold	<10cfu/g	<10cfu/g	GB 4789.15
E.coli	<10cfu/g	<10cfu/g	GB 4789.38
Salmonella	Negative/25g	Negative	GB 4789.4
Staphylococcus Aureus	<10cfu/g	<10cfu/g	GB 4789.10
Conclusion	This batch complies with the USP-NF2024.		

Inspector:
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