

CERTIFICATE OF ANALYSIS

Product Name	Creatine monohydrate	Batch Number	010009200730
CAS Number	6020-87-7	Manufacture Date	Jul 30, 2020
Molecular Formula	C ₄ H ₉ N ₃ O ₂ ·H ₂ O	Best Used Before	Jul 29, 2022

Items	Specifications	Results	Test Methods
Appearance	White crystalline powder	Qualified	Visual
Assay	≥99.5%	99.96%	Titration
Creatinine	≤100ppm	38ppm	HPLC
Loss on drying	≤12.0%	11.46%	CHP2010
Residue on ignition	≤0.1%	0.02%	CHP2010
Iron	≤10ppm	<10ppm	CHP2010
Sulfate	≤0.1%	<0.1%	CHP2010
Dicyanamide	≤20ppm	<20ppm	CHP2010
Cyanide	≤1ppm	<1ppm	CHP2010
Heavy metal	≤5ppm	<0.5ppm	CHP2010
Arsenic (As)	≤1ppm	<0.1ppm	CHP2010
Lead (Pb)	≤1ppm	<0.1ppm	CHP2010
Mercury (Hg)	≤1ppm	<0.1ppm	CHP2010
Cadmium (Cd)	≤1ppm	<0.1ppm	CHP2010
Bulk density	≥430g/L	450g/L	--
Tapped density	≥550g/L	640g/L	--
Total bacterial count	≤100cfu/g	<50cfu/g	CHP2010
Mould & yeast	≤100cfu/g	<50cfu/g	CHP2010
E.coli	Negative	Negative	CHP2010
Salmonella	Negative/25g	Negative	CHP2010
S.aureus	Negative	Negative	CHP2010
Coliforms at 45°	≤10cfu/g	Negative	CHP2010

Conclusion: Qualified