



大连汉德姆精细化学品有限公司

DALIAN HANDOM CHEMICALS CO.,LTD.

Certificate of Analysis

Product Name: Creatine Monohydrate

CAS No.: 6020-87-7

Batch No.: HDC20230830

Manufacturing Date: Aug 30th, 2023

Packing: 25Kg/Carton

Retest Date: Aug 29th, 2026

Report Date: Aug 31st, 2023

Specification: Enterprise Standard

Test Item	Specification	Test Result	Test Method
Characteristic	White crystalline powder, no peculiar smell	Conforms	Visual
Content(On the anhydrous basis)	98.0% ~ 102.0%	100.2%	Liquid Chromatogram
Particle Size	200 Mesh	Conforms	Sieving
Sulfate	Not more than 0.03%	Conforms	Colorimetry
Residue on Ignition	Not more than 0.1%	0.01%	USP<281>
Loss on Drying	10.5% ~ 12.0%	11.4%	USP<731>
Cyanide	Not more than 1 ppm	Conforms	Colorimetry
Creatinine	Not more than 100 ppm	70 ppm	Liquid Chromatogram
Dicyanamide	Not more than 20 ppm	16 ppm	Liquid Chromatogram
Dihydrotriazine	Not more than 5 ppm	Conforms	Liquid Chromatogram
Bulk Density	Not less than 400g/L	479g/L	USP<616>
Tap Density	Not less than 500g/L	785g/L	USP<616>
Impurity	Not more than 1%	0.06%	Compute
Heavy Metals	Not more than 10 ppm	Conforms	USP<231>
Lead(Pb)	Not more than 1 ppm	Conforms	USP<251>
Arsenic(As)	Not more than 1 ppm	Conforms	USP<211>
Mercury(Hg)	Not more than 0.1 ppm	Conforms	USP<261>
Cadmium(Cd)	Not more than 1 ppm	Conforms	AAS
Total Bacterial Count	Not more than 10 CFU/g	Conforms	USP<61>
Coliform	Negative/10g	Not detected	USP<61>
E. coli and Salmonella	Negative/10g	Not detected	USP<61>
Yeasts & Moulds	Negative/10g	Not detected	USP<61>
Staphylococcus aureus	Negative/10g	Not detected	USP<61>

Conclusion: The testing results of this batch are complied with the Enterprise Standard.