

## Certificate of Analysis

Product Name	Creatine Monohydrate		Batch No:	CM 20171108	
Mesh Size	200 Mesh	Batch Size	8100 KG	Package	25KG/Drum
Manufacturing Date	2017.11.08		Testing Date	2017.11.11	
Expiry Date	2019.11.07		Testing Standard	Enterprise Standard	
Item	Standard		Result	Test Method	
Content Assay	99.9% Min		99.91%	Liquid Chromatogram	
Appearance	White Powder		White Powder	Eyeballing	
Loss On Drying	12.0% Max		11.40%	USP<731>	
Residue On Ignition	0.1% Max		0.04%	USP<281>	
Test Of Sulfuric Acid	No Carbonation		Conformed	Eyeballing	
Bulk Density	400g/L ~ 550g/L		470g/L	USP<616>	
Tap Density	500g/L ~650g/L		584g/L	USP<616>	
Creatinine	100ppm Max		69ppm	Liquid Chromatogram	
Sulphate	0.03% Max		Conformed	Colorimetry	
Dicyanamide	20ppm Max		Conformed	Liquid Chromatogram	
Cyanide	1ppm Max		Conformed	Colorimetry	
Impurity	1% Max		0.05%	Compute	
Heavy Metals	10ppm Max		Conformed	USP<231>	
Arsenic	1ppm Max		Conformed	USP<211>	
Lead	1ppm Max		Conformed	USP<251>	
Cadmium	1ppm Max		Conformed	AAS	
Mercury	0.1ppm Max		Conformed	USP<261>	
Total Plate Count	10cfu/g Max		Conformed	USP<61>	
Coliform	Negative		Conformed	USP<61>	
E.Coli & Samlmonella	Negative		Conformed	USP<61>	
Yeast & Mould	Negative		Conformed	USP<61>	
Staphylococcus Aureus	Negative		Conformed	USP<61>	