

Certificate of Analysis

Product Name:	Creatine hydrochloride	Batch Number:	Varies
CAS No.	17050-09-8	Manufacture Date:	Varies
Molecular Formula:	$C_4H_{10}ClN_3O_2$	Expiry Date:	Varies

IDENTIFICATION		SPECIFICATION	RESULT
Assay		≥ 98.0%	99.6 - 99.83%
	Appearance	White crystalline powder	Complies
	Creatine	74.3% - 82.1%	79.30%
	НСІ	20.7% - 22.9%	20.53%
Physical	Loss on drying	≤ 1%	0.33 - 0.43%
Physical	Particle size	60% pass 40 mesh	Complies
	Residue on ignition	≤ 0.1%	0.03%
	Melting point	> 120°C	126°C
Chemical	Total impurities	≤ 2%	Complies
	Lead (Pb)	≤ 1 ppm	Complies
	Arsenic (As)	≤ 1 ppm	Complies
	Cadmium (Cd)	≤ 1 ppm	Complies
	Mercury (Hg)	≤ 1 ppm	Complies
	Heavy metals	≤ 5 - 10 ppm	Complies
Microbial	Total Plate Count	≤ 1000 cfu/g	< 10 cfu/g
	Yeasts & Mould	≤ 100 cfu/g	< 10 cfu/g
	E. Coli, Salmonella, Staphylococcus	Negative	Complies

Else	Storage condition	Sealed, kept in shady and dry place
	Shelf life	Two years

