



Bio Basic Inc.

A world leader in serving science

CERTIFICATE OF ANALYSIS

Product	L-Cysteine hydrochloride, monohydrate
Grade	High Purity
Product Code	CB0133
Formula	$\text{HSCH}_2\text{CH}(\text{NH}_2)\text{COOH} \cdot \text{HCl} \cdot \text{H}_2\text{O}$
MW	175.63
CAS#	7048-04-6
Lot No	

Test Items	Specifications	Results
Appearance	A white to off-white Powder	
State of solution	Clear, colorless	
Specific rotation	$+5.50^\circ - +7.00^\circ$	
Loss on Drying	8.5-12.0%	
Chloride	19.89-20.29%	
Ammonium	$\leq 0.02\%$	
Iron	$\leq 10\text{ppm}$	
Sulfate	$\leq 0.02\%$	
Other amino acids	Chromatorgraphically not detectable	
Residue on ignition	$\leq 0.10\%$	
Heavy metals	$\leq 10\text{ppm}$	
Assay	99.0~100.5%	

Storage: 18~25°C.

OF 21 Rev 1

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