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## CERTIFICATE OF ANALYSIS

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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	

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

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Storage: 18~25°C.