

# Shine Star (Hubei) Biological Engineering Co., Ltd.

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## SPECIFICATIONS

**Product Name: L-Cysteine Hydrochloride Monohydrate**

**Quality Standard: AJI92 CAS NO.: 7048-04-6**

**Description: white crystal or crystalline powder,  
strongly acid taste, very soluble in water**

**Solubility (H<sub>2</sub>O, g/100g): about 110 (20°)**

Test Items	Limit
Identification	conforms to AJI92
Specific rotation $[\alpha]^{20}_D$	+5.5° to +7.0°
State of solution	clear and colorless
	not less than 98.0%
Chloride (Cl)	19.89 to 20.29%
Ammonium (NH <sub>4</sub> )	not more than 0.02%
Sulfate (SO <sub>4</sub> )	not more than 0.020%
Iron (Fe)	not more than 10ppm
Heavy Metals (Pb)	not more than 10ppm
Arsenic (As <sub>2</sub> O <sub>3</sub> )	not more than 1ppm
Other amino acids	chromatographically not detectable
Loss on drying	8.5 to 12.0%
Residue on ignition (sulfated)	not more than 0.10%
Assay	99.0% to 100.5%
pH	1.5 to 2.0

**Storage: Preserve in tight containers at controlled room temperature.**

**Recommended limit: 1 year**