

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Specification Sheet

Product Name: **L-Cysteine hydrochloride monohydrate**  
 Specifications & Purity: **UltraBio™, Ultra pure, ≥99%(T)**  
 SKU #: **L433360**

Parameter	Limit Values
Appearance(L433360)	Colorless or White Crystals
Purity(redox titration)	99-101.5 (%)
NMR Spectrum 1H	Conforms to structure
Specific Rotation [α] <sub>20</sub> /D(c=5 in 5 M HCl)	5.3-5.9 (°)
Sulfated Ash	0-0.05 (%)
PH(1M Water)	0.8-1.0
UV-ABS.at 260 nm	0-1
UV-ABS.at 280 nm	0-0.3
Aluminium(Al)	0-10 (ppm)
Barium(Ba)	0-5 (ppm)
Bismuth(Bi)	0-5 (ppm)
Calcium(Ca)	0-10 (ppm)
Cadmium(Cd)	0-5 (ppm)
Cobalt (Co)	0-5 (ppm)
Chromium(Cr)	0-5 (ppm)
Copper(Cu)	0-5 (ppm)
Iron(Fe)	0-5 (ppm)
Potassium(K)	0-50 (ppm)
Lithium(Li)	0-5 (ppm)
Magnesium (Mg)	0-5 (ppm)
Manganese(Mn)	0-5 (ppm)
Molybdenum(Mo)	0-5 (ppm)
Sodium(Na)	0-100 (ppm)
Nickel(Ni)	0-5 (ppm)
Lead(Pb)	0-5 (ppm)
Strontium(Sr)	0-5 (ppm)
Zinc(Zn)	0-5 (ppm)
Arsenic traces(MHS-AAS)	0-0.5 (ppm)
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-200 (ppm)
Ion chromatography(NH <sub>4</sub> <sup>+</sup> )	0-500 (ppm)