


CERTIFICATE OF ANALYSIS

Product Name:	<u>L-Cystine Dihydrochloride</u>	Report Date:	<u>Aug 04, 2017</u>
Formula:	<u>C₆H₁₄Cl₂N₂O₄S₂</u>	Batch No.:	<u>170802</u>
CAS No.:	<u>30925-07-6</u>	Manu. Date:	<u>Aug 02, 2017</u>
Inspection Standard:	<u>In-house Standard</u>	Exp. Date:	<u>Aug 01, 2019</u>

RESULTS OF ANALYSIS

Test Items	Specifications	Results
Appearance	White crystals or crystalline powder	Conforms
Specific rotation $[\alpha]_D^{25}$	-163 to -173°	-170.5°
State of solution (Transmittance)	Clear and colorless Not less than 98.0%	98.2%
Iron(Fe)	Not more than 10ppm	<10ppm
Heavy Metals(Pb)	Not more than 10ppm	<10ppm
Arsenic	Not more than 1ppm	<1ppm
Other amino acids	Chromatographically not detectable	Conforms
Loss on drying	Not more than 1.0%	0.2%
Residue on ignition(sulfated)	Not more than 0.1%	0.05%
Assay	98.5% to 101%	99.2%
Conclusion:	Conforms to the specifications of In-house standard	

Analyst: **侯健之**Auditor: **辽薛兰**Chief of QC: **于铁梅**