


CERTIFICATE OF ANALYSIS

NO: DYC081503205

Product name	L-Cysteine hydrochloride monohydrate (USP30)
CAS Number	7048-04-6
Molecule Structure	
Molecule Formula	C3H10ClN03S
Batch number	20150301
Manuf. Date&Exp. Date	2015-03-01, 2017-02-28
Testing standard	USP30
Testing date	2015-03-01

Items	Standard	Result
Appearance	White crystal or crystalline powder	Complies
Identification	Infrared absorption	Qualified
Specific rotation $[\alpha]_D^{20}$	+5.7~+6.8°	+6.34°
Loss on drying	8.0-12.0%	10.51%
Residue on ignition	0.4% max	0.07%
Sulfate	0.03% max	0.02% max
Iron	0.003% max	0.001% max
Heavy metals	0.0015% max	0.001% max
Chromatographic impurity, as USP30 (TLC)	Individual impurity: 0.5% max Total impurity: 2.0% max	0.5% max 2.0% max
Organic volatile impurities	Meets the requirement	Complies
Assay	98.5-101.5%	99.62%

Hangzhou Dingyan Chem Co., Ltd.
 Quality Control *Pals*
 QUALITY CONTROL: *Pals* CHECK: 姚仙娟 INSPECTOR: 刘清风