



Specification

L-Cysteine HCl Monohydrate USP/FCC/EP

Catalog Number: CY1004
CAS Number: 7048-04-6
Molecular Formula: $C_3H_7NO_2S \cdot HCl \cdot H_2O$
Molecular Weight: 175.6
Storage: 15°C – 30°C, Keep away from strong heat or light
Retest Period: Two years from the date of manufacture

Test	Specification
Appearance	Fine white crystalline powder
Assay (Dry Basis)	98.5% – 101.5%
Specific Rotation	+5.7° to +6.8°
Identification	Infrared absorption
State of Solution (Transmittance)	Clear & colorless $\geq 98\%$ Not more intensely colored than BY6
Moisture (LOD)	8.0% - 12.0%
Residue on Ignition	$\leq 0.4\%$
Ammonium	$\leq 200\text{ppm}$
Sulfate	$\leq 0.03\%$
Chromatographic Purity	
Individual	$\leq 0.5\%$
Total	$\leq 2.0\%$
Ninhydrin-positive Substances	$\leq 0.5\%$
Heavy Metals	$\leq 15\text{ppm}$
Iron	$\leq 30\text{ppm}$
Lead	$\leq 3.0\text{ppm}$
Residual Solvents	To meet requirements
Total Aerobic Count	$\leq 1000\text{cfu/g}$
Mold & Yeast	$\leq 100\text{cfu/g max}$
Coliforms	$\leq 10 \text{ cfu/g max}$
<i>S. aureus</i>	Negative
<i>E. coli</i>	Negative
<i>Salmonella</i>	Negative
<i>Pseudomonas</i>	Negative
All lots meet the specifications for USP36/FCC/EP7.	

Approved:

Date: October 19, 2015

John Grubb, PhD
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