



Specification

L-Cystine USP/AJI/FCC

Catalog Number:	CT1007
CAS Number:	56-89-3
Synonyms:	(R,R)-3,3'-Dithiobis(2-aminopropionic acid)
Molecular Formula:	C ₆ H ₁₂ N ₂ O ₄ S ₂
Molecular Weight:	240.29
Storage:	15°C – 30°C
Retest Period:	Two years from the date of manufacture

Test	Specification
Appearance	White crystalline powder
Assay	98.5% to 101.0%
Identification (IR)	To meet requirements
Optical Rotation	-216.0° to -224.0°
Melting Point	Report (~240°C)
State of Solution (100mg/mL in 1M HCl)	≥ 95%, Clear & colorless
pH (in Water)	5.0 – 6.5
Ammonium	≤ 0.02%
Chloride	≤ 0.05%
Sulfate	≤ 0.02%
Heavy Metals (Pb)	≤ 10ppm
Arsenic	≤ 3ppm
Cadmium	≤ 1ppm
Iron	≤ 10ppm
Lead	≤ 3ppm
Mercury	≤ 0.2ppm
Other Amino Acids	Chromatographically not detectable
Moisture (LOD)	≤ 0.2%
Residue on Ignition	≤ 0.1%
Total Plate Count	≤ 1,000cfu/g
Yeast & Mold	≤ 100cfu/g
Coliforms	Negative
<i>E. coli</i>	Negative
<i>S. aureus</i>	Negative
<i>Salmonella</i>	Negative
Bulk Density	0.4 – 0.6g/mL
Tapped Density	0.55 – 0.65g/mL
Lots will meet the specifications for AJI92 and FCC.	

Approved:

Date: December 10, 2014



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