



Certificate of Analysis

L-Cystine AJI/FCC

Catalog Number: CT1007
Lot Number: 0823803
CAS Number: 56-89-3
Synonyms: (R,R)-3,3'-Dithiobis(2-aminopropionic acid)
Molecular Formula: C₆H₁₂N₂O₄S₂
Molecular Weight: 240.29
Storage: 15°C – 30°C
Date of Manufacture: April 4, 2018
Retest Date: April 3, 2020

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Assay	98.5% to 101.0%	99.7%
Identification (IR)	To meet requirements	Conforms
Specific Rotation	-216.0° to -224.0°	-220.0°
State of Solution (50mg/mL in 1M HCl)	≥ 95%, Clear & colorless	96.9%
pH (in Water)	5.0 – 6.5	6.0
Moisture (LOD)	≤ 0.2%	0.02%
Residue on Ignition	≤ 0.1%	0.03%
Ammonium	≤ 0.02%	0.02%
Chloride	≤ 0.05%	0.05%
Sulfate	≤ 0.02%	0.02%
Heavy Metals (Pb)	≤ 10ppm	< 1ppm
Arsenic	≤ 1.0ppm	0.5ppm
Cadmium	≤ 1.0ppm	0.5ppm
Iron	≤ 10ppm	< 10ppm
Lead	≤ 3ppm	2ppm
Mercury	≤ 0.2ppm	0.1ppm
Other Amino Acids	Chromatographically not detectable	Conforms
Total Plate Count	≤ 1,000cfu/g	< 1000cfu/g
Yeast & Mold	≤ 100cfu/g	< 100cfu/g
Coliforms	Negative	Negative
<i>E. coli</i>	Negative	Negative
<i>S. aureus</i>	Negative	Negative
<i>Salmonella</i>	Negative	Negative
Bulk Density	Report	0.64g/mL
Tapped Density	Report	0.58g/mL



Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
5386 Majestic Parkway, Suite 7, Bedford Heights, OH 44146
www.gojirafc.com • sales@gojirafc.com

Approved by:

Date: August 23, 2018

A handwritten signature in blue ink that reads "John Grubb". The signature is written in a cursive, flowing style.

John Grubb, PhD
Gojira Fine Chemicals, LLC
Quality Manager
Tel: 440-539-7033, Fax: 888-211-5523
docsupport@gojirafc.com