



Specification

N-Acetyl-L-Cysteine USP/AJ1

Catalog Number:	AC1001
CAS Number:	616-91-1
Synonym(s):	LNAC, NAC
Molecular Formula:	C ₅ H ₉ NO ₃ S
Molecular Weight:	163.19
Storage:	15°C – 30°C
Retest Period:	Two years from date of manufacturing.

Test	Specification
Appearance	White crystalline powder
Assay (Dry Basis)	98.50% - 100.50%
Identification	Positive
Melting Point	106.00°C - 110.00°C
Specific Rotation	+21.00° to +27.00°
Transmittance	≥98.00%
Moisture (LOD)	≤0.50%
Solubility (100 mg/ml)	Clear & colorless
pH	2.0 - 2.8
Chloride	≤0.04%
Sulfate	≤0.03%
Ammonium	≤ 0.02%
Heavy Metal	≤10 ppm
Arsenic	≤1.00ppm
Cadmium	≤1.00ppm
Lead	≤2.00ppm
Mercury	≤1.00ppm
Iron	≤ 20 ppm
Residue on Ignition	≤ 0.20%
Other Amino Acids	Chromatographically not detectable
Total Plate Count	≤1,000 CFU/G
Yeast & Mold	≤100 CFU/G
Coliforms	≤100 CFU/G
<i>E. Coli</i>	Negative
<i>Salmonella</i>	Negative
<i>Staphylococcus aureus</i>	Negative
Mesh Size	20 – 100mesh
Bulk Density	0.60 – 0.90g/mL
Tap Density	0.80 – 1.10g/mL
Meets specifications for USP 34 and AJ192	



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5386 Majestic Parkway, Suite 7, Bedford Heights, OH 44146
www.gojirafc.com • sales@gojirafc.com

Approved:

Date: June 16, 2015

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
Quality Manager
Tel: 440-252-5397, Fax: 888-211-5523
docsupport@gojirafc.com