

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-04-20 16:39:34
 Date of Next Testing: 2030-04-19 16:39:34
 Product Name: **N-Acetyl-L-Cysteine (NAC)**
 CAS Number: 616-91-1
 Specifications & Purity: PharmPure™,USP,Ph.Eur.,Moligand™,≥98.5%
 Lot #: D2617604
 SKU #: **A105421**
 Version: **1**
 Analysis #: **676521**
 Storage Temperature: Store at 2-8°C,Argon charged

Parameter	Limit Values	Result
Assay	98.5-100 (%)	98.80000 %
Loss on drying	0-1 (%)	0.32580 %
Total impurities	0-0.5 (µg/kg OR ng/g)	0.01820 µg/kg OR ng/g
Other impurities	0-0.5 (%)	0.01230 %
n,n'diacetyl-l-cystine	0-0.5 (%)	0.01720 %
Ignition Residue (as sulfate)	0-0.2 (%)	0.03400 %
Endonuclease Detection	0-0.1 (EU/g)	0.00100 EU/g
Heavy metal (as Pb)	0-10 (ppm)	0.52700 ppm
n,s-diacetyl-l- cysteine	0-0.5 (%)	0.01700 %
l-cystine	0-0.5 (%)	0.03200 %
Zinc(Zn)	0-10 (ppm)	1.04200 ppm
PH test	2-2.8	2.37200
l-cysteine	0-0.5 (%)	0.10250 %
Specific Rotation [α] ₂₀ /D(c=5 in Phosphate buffered saline)	21.3-27 (°)	21.80800 °
Appearance (A105421)	white crystalline powder	white crystalline powder
biochemical toxicity	passes	passes
Solubility in H ₂ O , 0.5 G /10 ML in water, clear, colorless	pass	Pass
volatile organic substances	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



QualityAssurance@aladdinsci.com

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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager