

Certificate of Analysis

Date of Testing: 2023-08-18 14:23:21

Date of Next Testing: 2027-08-17 14:23:21

Product Name: **N-Acetyl-L-Cysteine**

CAS Number: 616-91-1

Specifications & Purity: for cell culture, ≥99.0%

Lot #: H2316244

SKU #: **A105422**

Analysis: **255248**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.3 (%)	0.12 %
Purity(Titration by Iodine)	98.5-102.5 (%)	101.82 %
Melting point	106-113 (°C)	112.91000 °C
Specific Rotation [α] ₂₀ /D(c=2 in H ₂ O)	4.5-6.5 (°)	4.51 °
Appearance (A105422)	White to Off-White Crystals or powder or crystalline powder	White to Off-White Crystals or powder or crystalline powder
Cell Culture Test	pass	Pass
Solubility in H ₂ O , clear , colorless , 100 mg plus 1 ml of water	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager