

## Certificate of Analysis

Date of Testing: 2023-04-14 14:24:57  
Date of Next Testing: 2027-04-13 14:24:57  
Product Name: **N-Acetyl-L-Cysteine**  
CAS Number: 616-91-1  
Specifications & Purity: for cell culture, ≥99.0%  
Lot #: D2310205  
SKU #: **A105422**  
**Analysis:** **065000**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.3 (%)	0.15 %
Melting point	106-113(°C)	112.89000 °C
Specific Rotation [α] <sub>20</sub> /D(c=2 in H <sub>2</sub> O)	4.5-6.5 (°)	4.51 °
Purity(Titration by Iodine)	98.5-102.5 (%)	100.95 %
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , clear , colorless , 100 mg plus 1 ml of water	pass	Pass
Appearance (A105422)	White to Off-White Crystals or powder or crystalline powder	White to Off-White Crystals or powder or crystalline powder



John Su  
QA & QC Manager