

## Certificate of Analysis

Date of Testing: 2023-02-24 20:21:35  
Date of Next Testing: 2027-02-23 20:21:35  
Product Name: **N-Acetyl-L-Cysteine**  
CAS Number: 616-91-1  
Specifications & Purity: for cell culture, ≥99.0%  
Lot #: B2322163  
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  | pass  | Pass  |
| H <sub>2</sub> O , clear , colorless , 100 mg plus 1 ml of water |   |   |
| Appearance (A105422)   | White to Off-White Crystals or powder or crystalline powder | White to Off-White Crystals or powder or crystalline powder |



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