

## Certificate of Analysis

Date of Testing: 2024-01-23 13:38:31  
 Date of Next Testing: 2028-01-22 13:38:31  
 Product Name: **Ampicillin Na**  
 CAS Number: 69-52-3  
 Specifications & Purity: USP grade  
 Lot #: A2408071  
 SKU #: **A105483**  
**Analysis:** **086105**  
 Storage Temperature: Store at 2-8°C

| Parameter   | Limit Values                          | Result                                |
|---|---------------------------------------|---------------------------------------|
| Purity(HPLC)  | 91-100.5 (%)                          | 99.63100 %                            |
| Dichloromethane   | 0-0.2 (%)                             | 0.16 %                                |
| Heavy metal (as Pb)   | 0-0.002 (%)                           | 0.00 %                                |
| Bacterial endotoxins  | 0-0.15 (IU/ml OR u/ml)                | 0.12 IU/ml OR u/ml                    |
| PH  | 8-10                                  | 9.00                                  |
| 2-Ethylhexanoic acid  | 0-0.8 (%)                             | 0.40 %                                |
| Specific Rotation [α] <sub>20</sub> /D(c=0.25 in Potassium biphthalate solu | 258-287 (°)                           | 269.99 °                              |
| N,N-Dimethylaniline   | 0-0.002 (%)                           | 0.00 %                                |
| Water by Karl Fischer   | 0-2 (%)                               | 1.39 %                                |
| potency (dry basis)   | 845-988 (mg/g)                        | 901.00 mg/g                           |
| Appearance (A105483)  | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Appearance (solution)   | passes test                           | transparent                           |
| Identification  | pass                                  | Pass                                  |
| Infrared spectrum   | Conforms to Structure                 | Conforms to Structure                 |
| Related substances  | Pass                                  | Pass                                  |



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

John Su  
QA & QC Manager