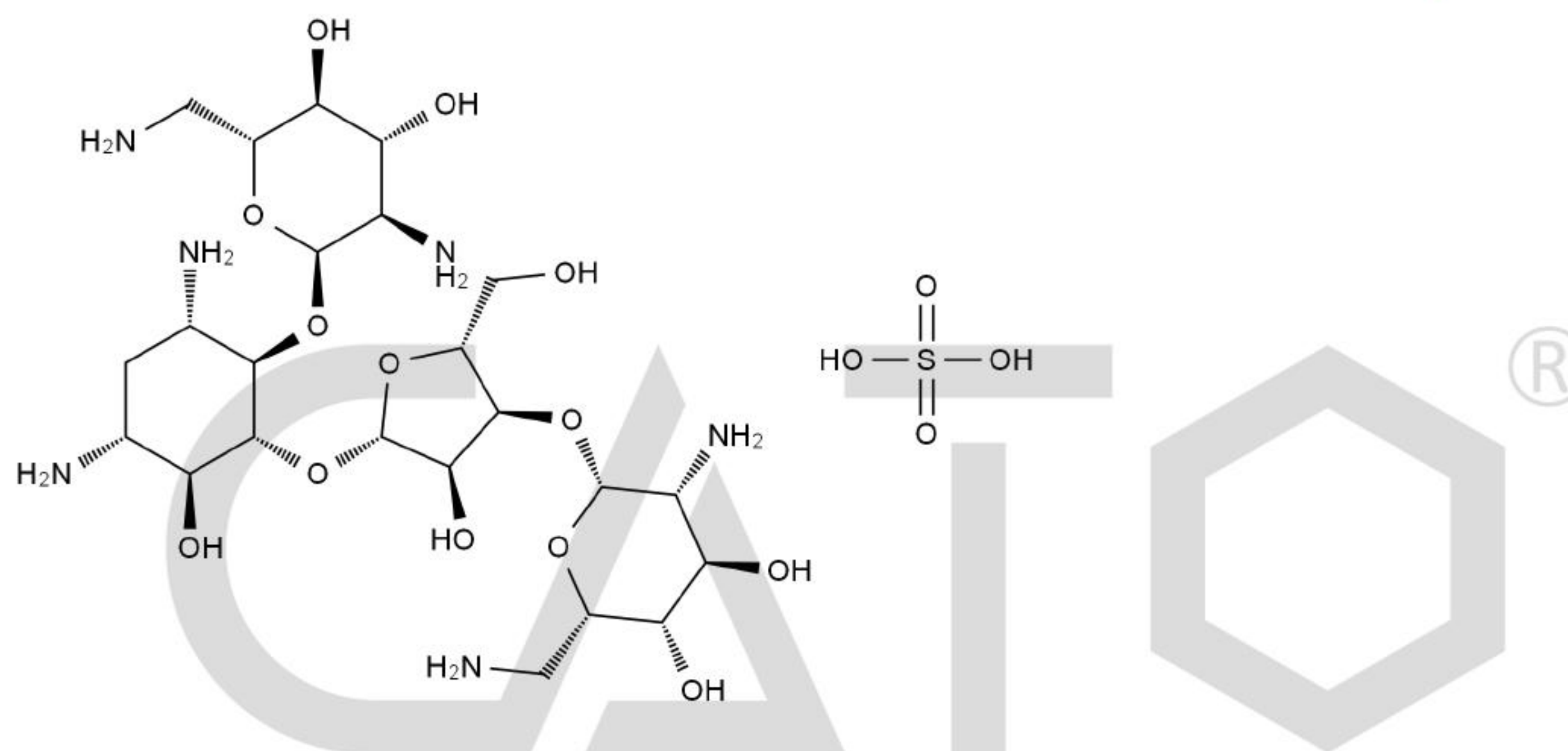


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                                                                |                          |                                                                                     |
|---------------------------|------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|
| <b>Product Name:</b>      | Neomycin Sulfate                                                                               | <b>Catalogue Number:</b> | CCAD300320                                                                          |
| <b>Synonyms:</b>          | N/A                                                                                            | <b>Lot Number:</b>       | 0414-RG-0102                                                                        |
| <b>CAS Number:</b>        | 1405-10-3                                                                                      | <b>Expiry Date:</b>      | Apr 26, 2029                                                                        |
| <b>Molecular Formula:</b> | C <sub>23</sub> H <sub>46</sub> N <sub>6</sub> O <sub>13</sub> H <sub>2</sub> O <sub>4</sub> S | <b>Storage:</b>          | Room Temp Protected from light and Sealed                                           |
| <b>Molecular Weight:</b>  | 614.64 98.08                                                                                   | <b>Warning:</b>          |  |

## Chemical Structure:



| Test Items     | Method            | Results           |
|----------------|-------------------|-------------------|
| Appearance     | Visual inspection | Pale Yellow Solid |
| Identification | LCMS&HNMR         | Confirmed         |
| Purity         | ELSD              | 97.874%           |
| Loss On Drying | TGA               | 3.0348%           |
| Assay          |                   | 94.9%             |
| Uncertainty    |                   | ±0.6%             |

## Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss On Drying) \* Purity ELSD (%) / 100%

Loss On Drying is considered as absolute effect, ELSD purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

## Signature:

Prepared by:

*Nice*

Reviewed by:

*Lisa*

Approved by General Manager:

*David*

Date: Apr 27, 2025

Date: Apr 27, 2025

Date: Apr 27, 2025

