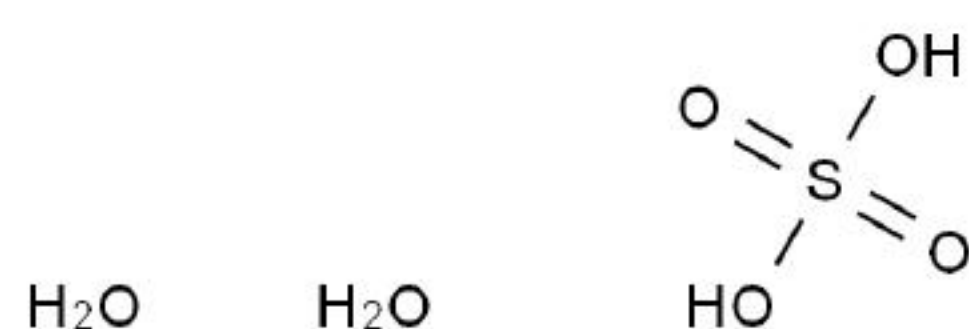


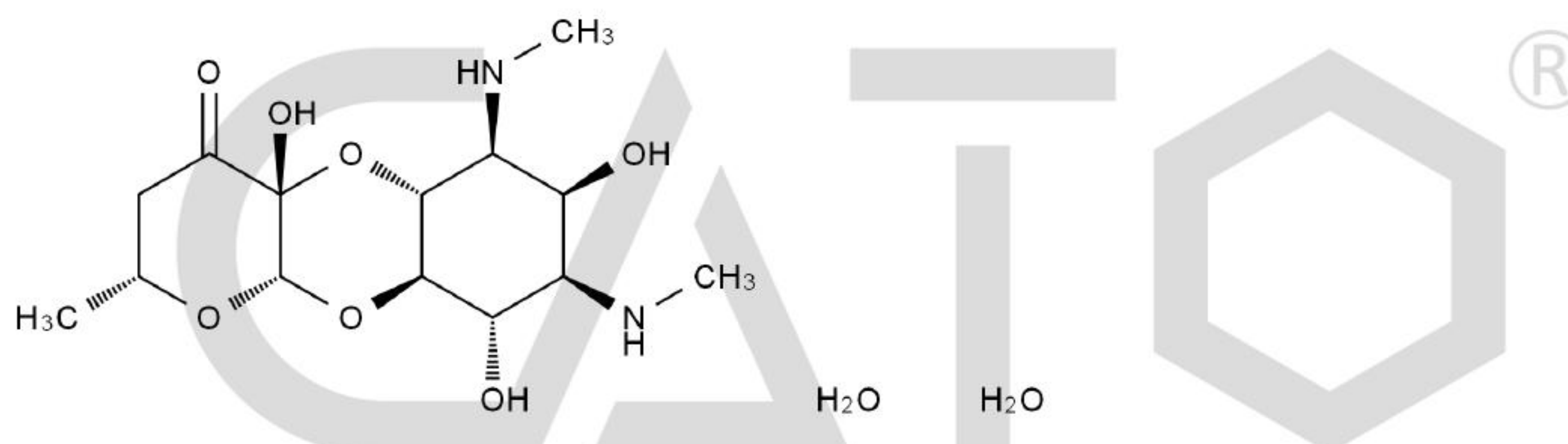
Certificate of Analysis

Reference Material & Standard

Product Name:	Spectinomycin Sulfate Tetrahydrate	Catalogue Number:	CCAD300859
Synonyms:	N/A	Lot Number:	0111-RF-0065
CAS Number:	64058-48-6	Expiry Date:	Jan 10, 2028
Molecular Formula:	C ₁₄ H ₂₄ N ₂ O ₇ H ₂ O ₄ S 4*H ₂ O	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	332.35 98.08 4*18.02	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Loss On Drying	TGA	14.3660%
Loss On Drying(Free Water)		0.0220%
Assay		100.0%
Uncertainty		±2.0%

Comment:

- The content of crystal water is 14.3440%.
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying(Free Water)}) * \text{Purity ELSD (\%)} / 100\%$$
 Loss On Drying(Free Water) is considered as absolute effect, ELSD purity is considered as relative effect.
- 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

Aproved by General Manager:

David

Date: Jan 11, 2024

Date: Jan 11, 2024

Date: Jan 11, 2024

