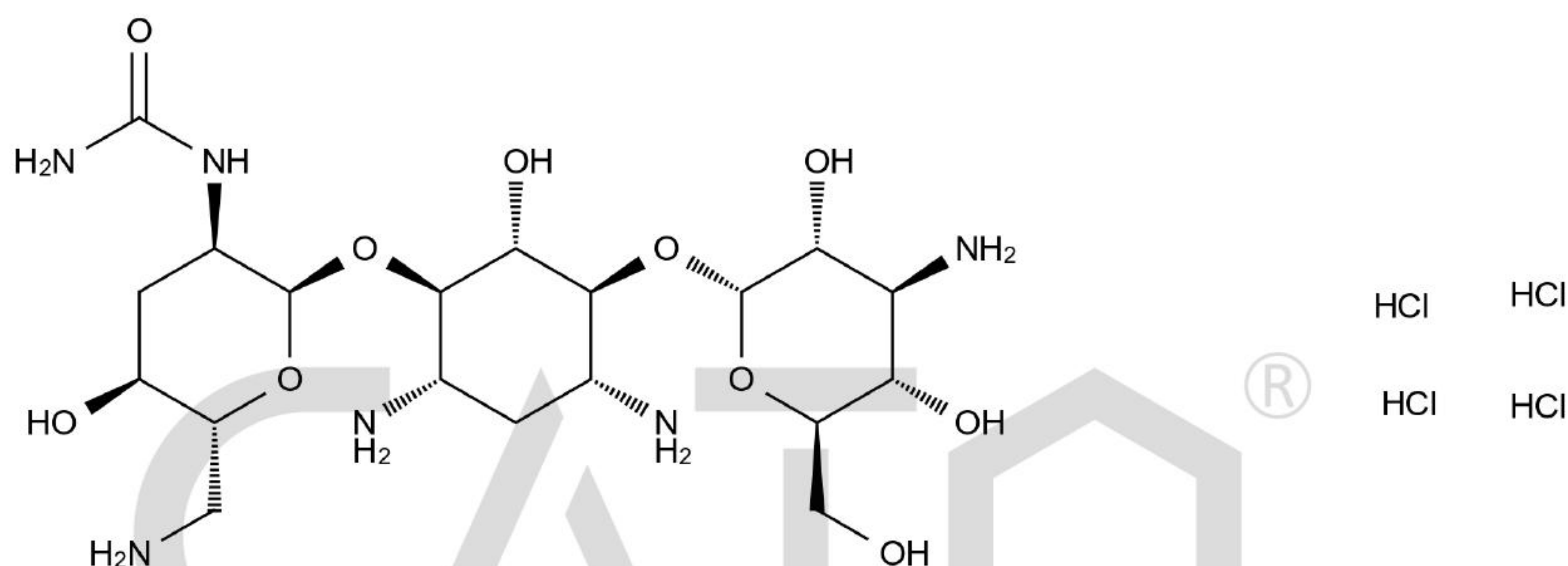


Certificate of Analysis

Reference Material & Standard

Product Name:	Tobramycin Impurity 9	Catalogue Number:	C4X-22009
Synonyms:	N/A	Lot Number:	1014-RF-0050
CAS Number:	N/A	Expiry Date:	Sep 19, 2027
Molecular Formula:	C ₁₉ H ₃₈ N ₆ O ₁₀ 4*HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	510.54 4*36.46		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	ELSD	100.0000%
Water Content	Karl Fischer	5.30%
Residual Solvents	NMR	0.4% ethanol
Assay		94.3%

Comment:

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

Assay (%) = (100% - Water Content - Residual Solvents) * Purity ELSD (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, ELSD purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Nov 13, 2024

Date: Nov 13, 2024

Date: Nov 13, 2024

