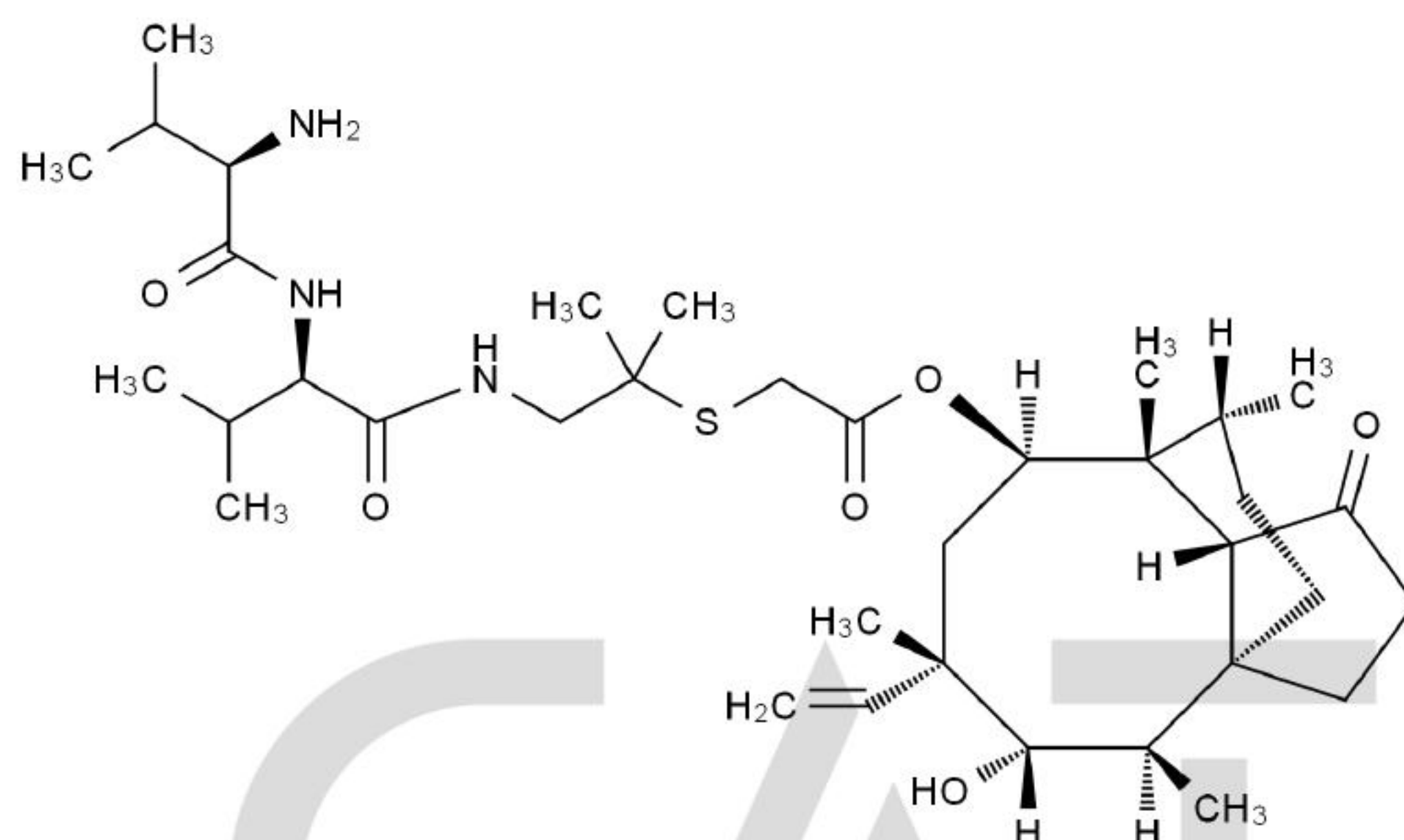


Certificate of Analysis

Reference Material

Product Name:	Valnemulin EP Impurity C	Catalogue Number:	C4X-19993
Chemical Name:	N/A	Lot Number:	0923-RE-0061
CAS Number:	N/A	Expiry Date:	Jul 19, 2025
Molecular Formula:	C ₃₆ H ₆₁ N ₃ O ₆ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	663.95		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	98.1645%
Water Content	Karl Fischer	2.00%
Residual Solvents	NMR	1.4% methanol
Optical Rotation		[α] _D 20.0(c=0.49,CH ₃ OH): +34.3°
Assay		94.8%

Comment:

- The compound contains 0.2% Valnemulin (RT 4.82) according to its HPLC.
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content} - \text{Residual Solvents}) * \text{Purity HPLC (\%)} / 100\%$$
 Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Aporoved by General manager:

David

Date: Jul 20, 2021

Date: Sep 26, 2023

Date: Sep 26, 2023

