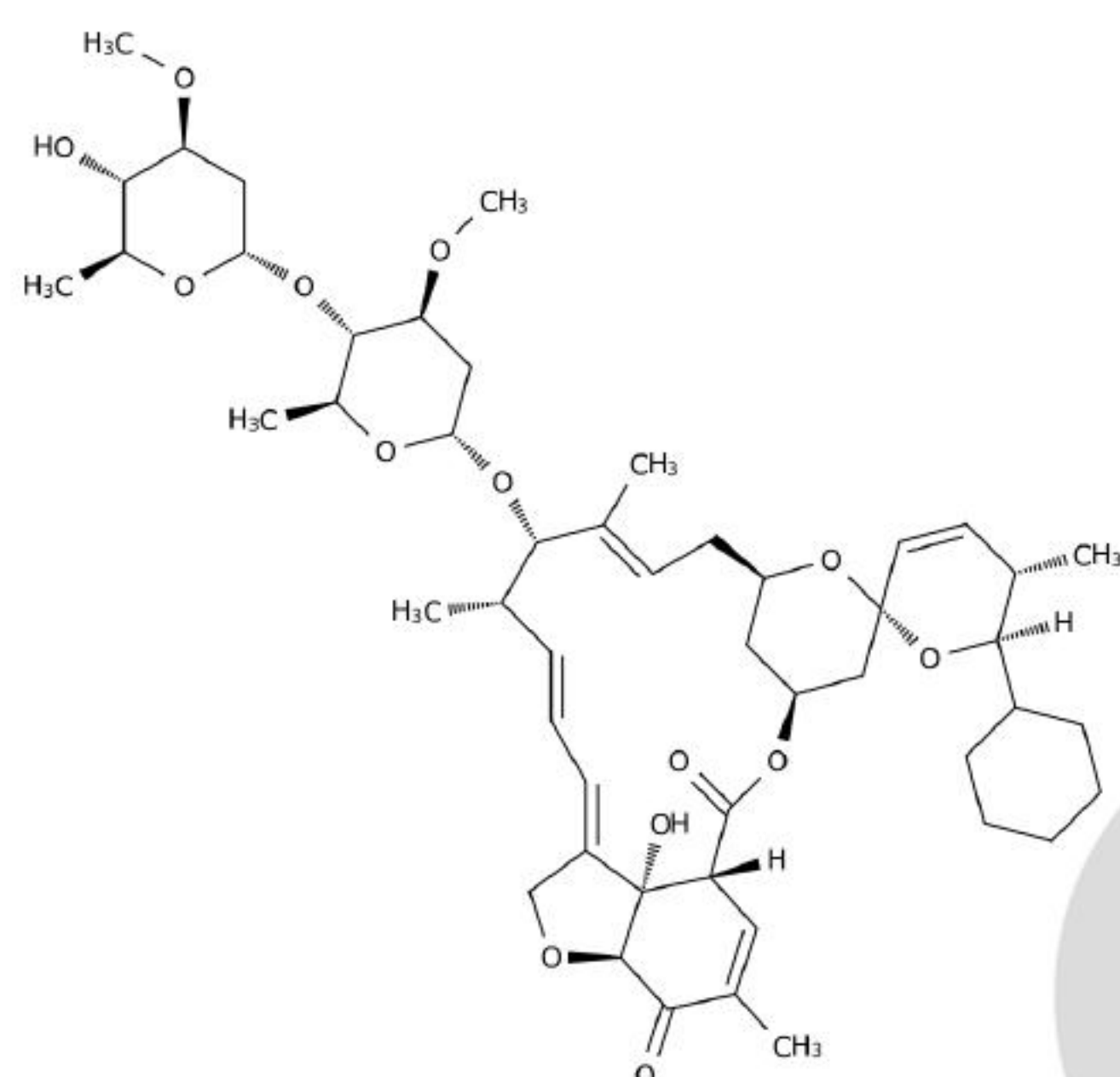


Certificate of Analysis

Reference Material & Standard

Product Name:	Avermectin Impurity 1	Catalogue Number:	C4X-15521
Synonyms:	N/A	Lot Number:	1109-RE-0029
CAS Number:	157483-78-8	Expiry Date:	Oct 31, 2026
Molecular Formula:	C ₅₀ H ₇₂ O ₁₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	897.10		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	98.9602%
Water Content	Karl Fischer	0.80%
Residual Solvents	NMR	0.8% acetonitrile
Optical Rotation		[α] _D ^{25.0} (c=0.60, CH ₃ OH): -23.2°
Assay		97.4%

Comment:

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

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

Aproved by General Manager:

David

Date: Nov 10, 2023

Date: Nov 10, 2023

Date: Nov 10, 2023

