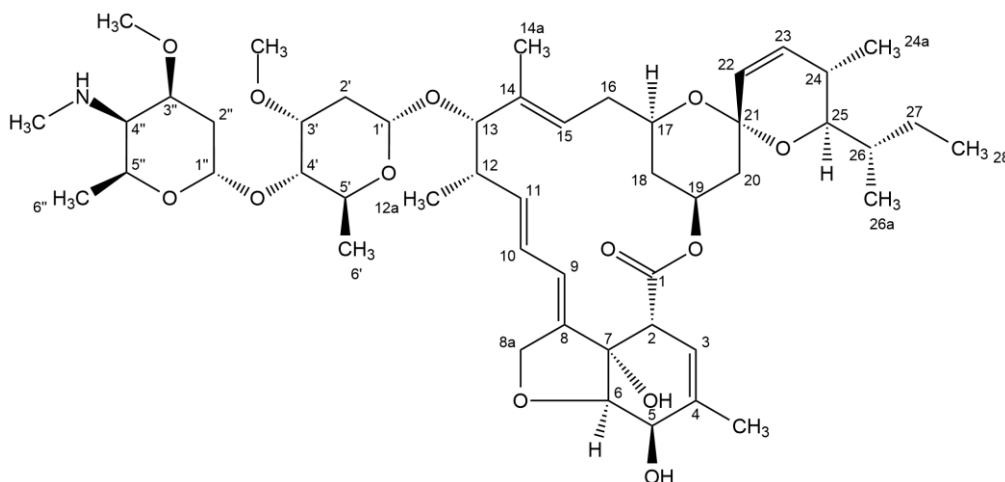


Certificate of Analysis

Product Information



PRODUCT	Emamectin B1a
CAT #	9668
BATCH #	055-050-106
ASSAY METHOD	HPLC-UV, MS, ¹ H-NMR, ¹³ C-NMR
REPORT DATE	8/5/2025
CHEMICAL NAME	(1'R,2R,3S,4'S,6S,8'R,10'E,12'S,13'S,14'E,16'E,20'R,21'R,24'S)-2-[(2S)-butan-2-yl]-21',24'-dihydroxy-12'-[(2R,4S,5S,6S)-4-methoxy-5-[(2S,4S,5R,6S)-4-methoxy-6-methyl-5-(methylamino)oxan-2-yl]oxy-6-methyloxan-2-yl]oxy-3,11',13',22'-tetramethylspiro[2,3-dihydropyran-6,6'-3,7,19-trioxatetracyclo[15.6.1.14,8.020,24]pentacosa-10,14,16,22-tetraene]-2'-one
SMILES STRUCTURE	<chem>CC[C@H](C)[C@@H]1[C@H](C=C[C@@]2(O1)C[C@@H]3C[C@H](O2)C/C=C(/[C@H]([C@H]/C=C/C=C4\CO[C@H]5[C@@]4([C@@H](C=C([C@H]5O)C)(=O)O3)O)C)O[C@H]6C[C@@H]([C@H]([C@@H](O6)C)O[C@H]7C[C@@H]([C@@H]([C@@H](O7)C)NC)OC)OC)\C)C</chem>
OTHER NAMES	N/A
CHEMICAL FORMULA	C ₄₉ H ₇₅ NO ₁₃
MOLECULAR WEIGHT	886.1 g/mol
CAS REGISTRY #	121124-29-6
STORAGE	<-18 °C; in dark
EXPIRATION DATE	8/5/2027
NOTES	

Analytical Data

TEST	METHOD	SPECIFICATION	RESULT
HPLC-UV	245 nm	>95%	98.6%
MS	ESI Positive	885.5 g/mol	886.5 g/mol [M+H] ⁺
¹ H-NMR		Conforms	Conforms
¹³ C-NMR		Conforms	Conforms
Appearance	White powder		

Planta Analytica, Inc. certifies that this reference material meets the specifications stated in this certificate until the expiration date, provided it is stored unopened at the recommended conditions. All analytical data is prepared and stored following GLP guidelines.

CERTIFIED BY	CERTIFIER TITLE	CERTIFIED ON	SIGNATURE
Robert Gallucci	Scientist II	8/13/2025	
REVIEWED BY	REVIEWER TITLE	REVIEWED ON	SIGNATURE
Vitold Glinski	President	11/26/2025	

Intended Use

This reference material is intended for laboratory use in analytical applications and as a quality control standard.

Safety

Proper precautions should be observed while handling, as defined in the Materials Safety Data Sheet (MSDS).

Storage

The product should be stored in the original packaging, sealed, and in the conditions dedicated in this certificate