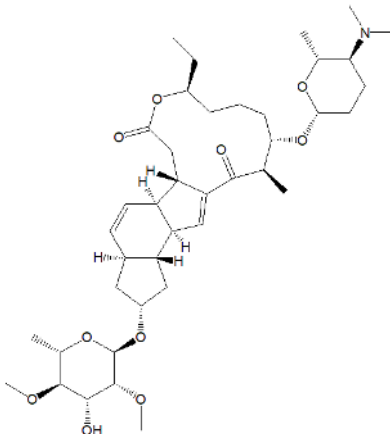


Certificate of Analysis



PRODUCT	<i>Spinosyn J</i>
BATCH #	PA-045-119-110
ASSAY METHOD	HPLC, ¹ H-NMR, ¹³ C-NMR
REPORT DATE	2022-05-18
CHEMICAL NAME	(1S,2R,5S,7R,9R,10S,14R,15S,19S)-15-[(2R,5S,6R)-5-(dimethylamino)-6-methyloxan-2-yl]oxy-19-ethyl-7-[(2R,3R,4R,5R,6S)-4-hydroxy-3,5-dimethoxy-6-methyloxan-2-yl]oxy-14-methyl-20-oxatetracyclo[10.10.0.0.2,10.05,9]docosa-3,11-diene-13,21-dione
SMILES STRUCTURE	CCC1CCCC(C(C(=O)C2=CC3C4CC(CC4C=CC3C2CC(=O)O1)OC5C(C(C(C(O5)C)OC)O)OC)C)OC6CCC(C(O6)C)N(C)C
OTHER NAMES	N/A
CHEMICAL FORMULA	C ₄₀ H ₆₃ NO ₁₀
MOLECULAR WEIGHT	717.9 g/mol
CAS REG. #	N/A
STORAGE	< -5 degrees C; in dark
EXPIRATION DATE	2025-05-20
NOTES	N/A

Analytical Data

TEST	METHOD	SPECIFICATION	RESULT
HPLC	254 nm	>95%	96.9%
¹ H-NMR		Conforms	Conforms
¹³ C-NMR		Conforms	Conforms
Appearance	White powder		
Mass (g)	305.4		

 Signed: Jan Glinski, Ph.D.
 Planta Analytica, LLC
 5/18/2022

