

Certificate of Analysis

Product Name: Maduramicin ammonium
VETRANAL™, analytical standard

Product Number: 34069

Batch Number: BCCJ9026

CAS Number: 84878-61-5

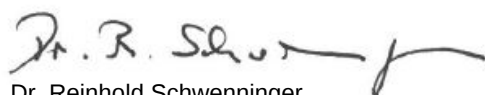
Formula: $C_{47}H_{83}NO_{17}$

Formula Weight: 934.16

Expiration Date: FEB 2028

Quality Release Date: 28 FEB 2023

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	WHITE TO FAINT YELLOW TO FAINT BEIGE	WHITE
APPEARANCE (FORM)	POWDER OR CRYSTALS	POWDER
PURITY (HPLC AREA %)	≥ 95.0 %	99.7 %
SPECIFIC ROTATION (20/D)	33.0 - 39.0 DEGREES	38.0 DEGREES
CONCENTRATION	C=1.2 IN METHANOL	--
MELTING POINT	163 - 169 C	167 C (DEGRADATION)
WATER	≤ 1.0 %	0.8 %
PROTON NMR SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS



Dr. Reinhold Schwenninger

Quality Assurance

Buchs, Switzerland

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

The vibrant M and Sigma-Aldrich are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. Detailed information on trademarks is available via publicly accessible resources.
© 2018 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.



Dionex Ultimate 3000 RSLC		
Pump : DGP-3600RS	Injection Time: 03.02.23 10:25	
Autosampler: WPS-3000	Processed By: murthale	
Detector: Corona ultra	Vial Number: RC2	
Column: Supelco Ascentis Express C18, 2.7 um	Column S/N: -	
Column Dim.: 150 x 2.1 mm	Sample Type: Unknown	
Mobile Phase:	Injection Volume: 2.0 µl	
%A : Acetonitrile	Flow: 0.5 ml/min	
%B : Methanol	Column Temp. (°C): 35.0	
%C : TFA 0.1%	Run Time: 15.00 min	
Gradient : see Figure 1		
Sample Prep.: 1 mg sample in 1 ml acetonitrile:water 1:1		

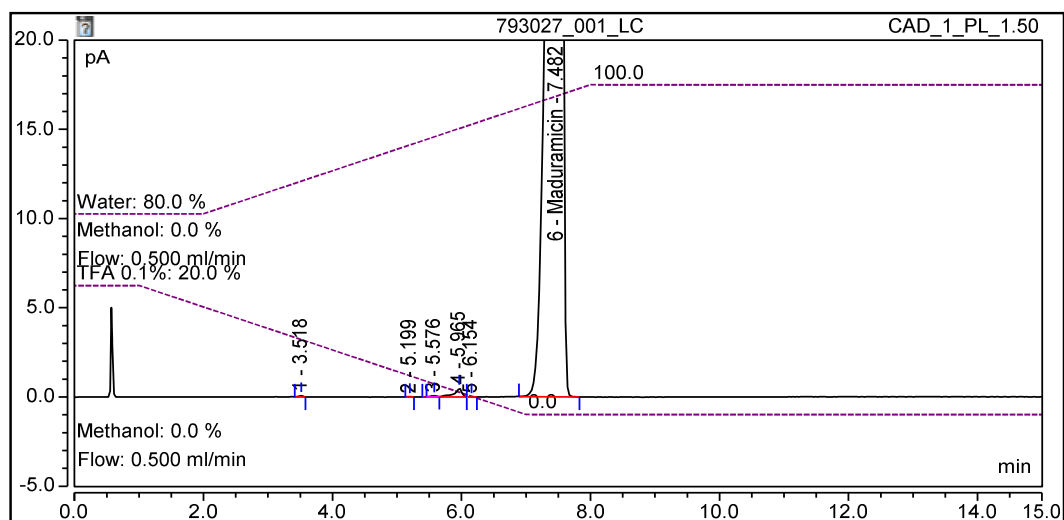


Figure 1: Zoomed Chromatogram

No.	Ret.Time min	Peak Name	Area pA*min	Height pA	Amount	Rel.Area %
1	3.518		0.00553	0.09071	n.a.	0.02
2	5.199		0.00178	0.03124	n.a.	0.01
3	5.576		0.00596	0.06262	n.a.	0.02
4	5.965		0.06951	0.50526	n.a.	0.26
5	6.154		0.00154	0.02121	n.a.	0.01
6	7.482	Maduramicin	26.83567	216.26343	n.a.	99.69
Total:			26.92000	216.97448		100.00

Table 1: Integration

