

Certificate of Analysis

Product Name: SULFAMETHAZINE
VETRANAL™, analytical standard
Product Number: 46802
Batch Number: BCBV3691
Brand: Sigma-Aldrich
CAS Number: 57-68-1
Formula: $C_{12}H_{14}N_4O_2S$
Formula Weight: 278.33
Expiration Date: MAY 2022
Quality Release Date: 25 SEP 2017

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	WHITE TO OFF WHITE	WHITE
APPEARANCE (FORM)	POWDER OR CRYSTALS	POWDER
PURITY (HPLC AREA %)	≥ 98.0 %	99.7 %
IDENTIFICATION (LC-MS)	CORRESPONDS TO REQUIREMENTS	IDENTITY PROOFED
MELTING POINT	195 - 200 C	198 C
WATER	≤ 1.0 %	0.10 %
PROTON NMR SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS



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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.

46802 Sulfamethazine

Lot Number: BCBV3691

Sample Name: 00000000597330_001_LC

Dionex Ultimate 3000 RSLC

Pump : LPG-3400RS	Injection Time: 15.06.17 14:17
Autosampler: WPS-3000	Processed By: Markus Urthaler
Detector: VWD-3400	Vial Number: GB2
Column: Supelco Ascentis Express C18, 2.7 um	Column S/N: -
Column Dim.: 50 x 2.1 mm	Sample Type: unknown
Mobile Phase:	Injection Volume: 1.0 µl
%A : Acetonitrile	Flow: 1.00 ml/min
%B : Methanol	Column Temp. (°C): 35.0
%C : Water	Run Time: 6.00 min
%D : Phosphoric acid 0.01M	
Gradient : see Figure 1	
Sample Prep.: 1 mg sample in 1 ml acetonitrile:water 1:1	

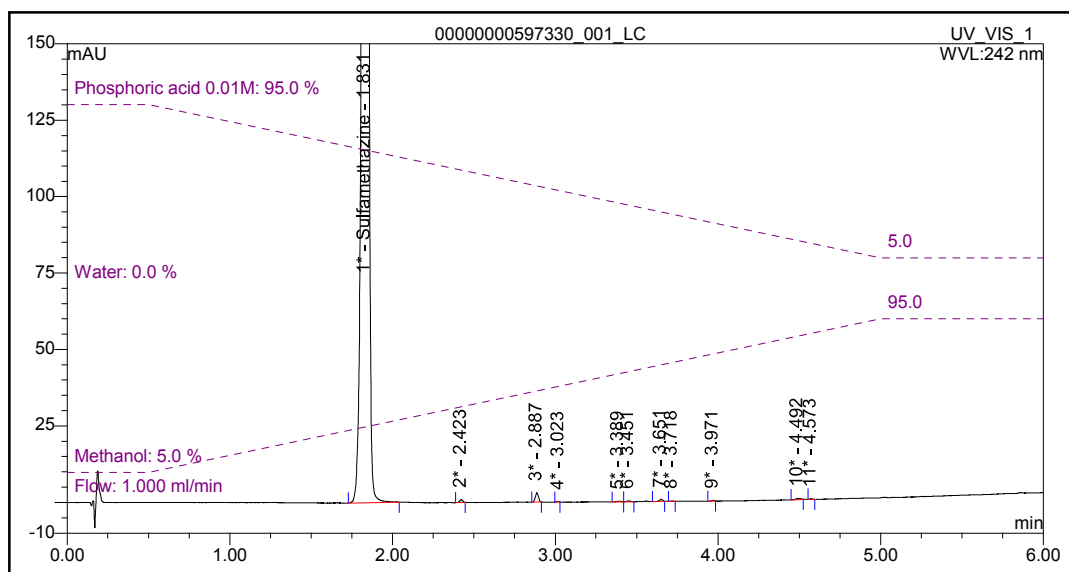


Figure 1: Zoomed Chromatogram

No.	Ret.Time min	Peak Name	Area mAU*min	Height mAU	Amount	Rel.Area %
1	1.831	Sulfamethazine	42.78245	1421.90326	n.a.	99.68
2	2.423	n.a.	0.02040	0.98699	n.a.	0.05
3	2.887	n.a.	0.06596	3.03978	n.a.	0.15
4	3.023	n.a.	0.00332	0.21126	n.a.	0.01
5	3.389	n.a.	0.00462	0.17777	n.a.	0.01
6	3.451	n.a.	0.00844	0.38000	n.a.	0.02
7	3.651	n.a.	0.01442	0.66473	n.a.	0.03
8	3.718	n.a.	0.00438	0.20323	n.a.	0.01
9	3.971	n.a.	0.00350	0.19640	n.a.	0.01
10	4.492	n.a.	0.01028	0.37447	n.a.	0.02
11	4.573	n.a.	0.00277	0.14243	n.a.	0.01
Total:			42.92054	1428.28032		100.00

Table 1: Integration