

Certificate of Analysis

Product Name: SULFATHIAZOLE
VETRANAL™, analytical standard
Product Number: 46902
Batch Number: BCBW1884
Brand: Sigma-Aldrich
CAS Number: 72-14-0
Formula: $C_9H_9N_3O_2S_2$
Formula Weight: 255.32
Expiration Date: NOV 2022
Quality Release Date: 07 DEC 2017

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	WHITE TO LIGHT YELLOW AND FAINT BEIGE TO LIGHT BEIGE	WHITE
APPEARANCE (FORM)	POWDER OR CRYSTALS	POWDER
PURITY (HPLC AREA %)	≥ 98.0 %	100.0 %
MELTING POINT	197 - 203 C	202C
WATER	≤ 1.0 %	<0.05%
PROTON NMR SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS



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Manager Quality Control
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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.

46902 Sulfathiazole

Lot Number: **BCBW1884**

Sample Name: **T39732_001_LC**

Dionex Ultimate 3000 RSLC

Pump : LPG-3400RS
Autosampler: WPS-3000
Detector: VWD-3400
Column: Supelco Ascentis Express C18, 2.7 μ m
Column Dim.: 50 x 2.1 mm
Mobile Phase:
 %A : Acetonitrile
 %B : Methanol
 %C : Water
 %D : Phosphoric acid 0.01M
Gradient : see Figure 1
Sample Prep.: 1 mg sample in 2 ml methanol

Injection Time: 28.11.17 12:31
Processed By: Markus Urthaler
Vial Number: BA3
Column S/N: -
Sample Type: unknown
Injection Volume: 1.0 μ l
Flow: 1.00 ml/min
Column Temp. (°C): 35.0
Run Time: 6.00 min

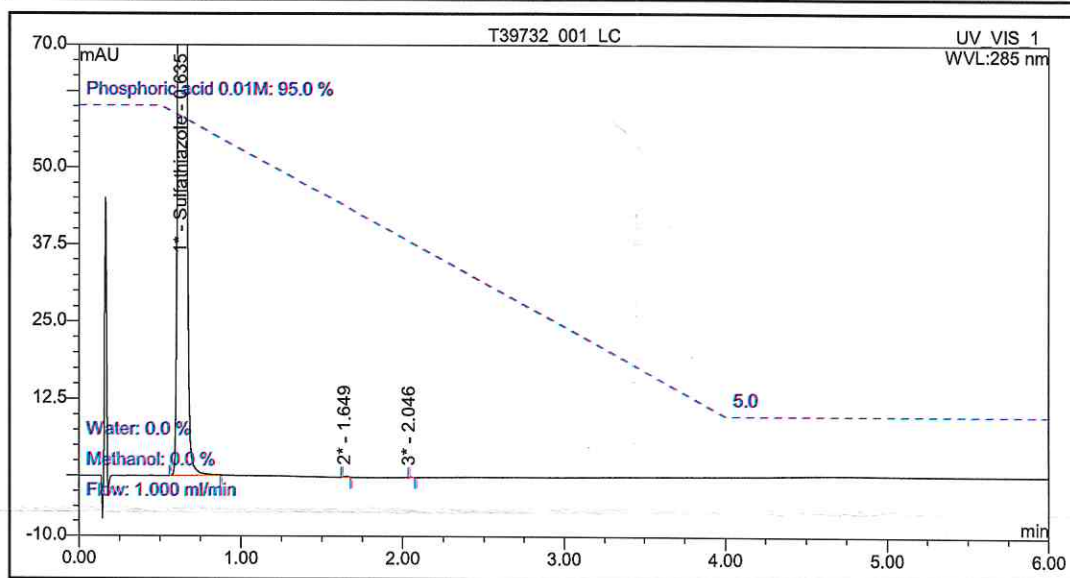


Figure 1: Zoomed Chromatogram

No.	Ret. Time min	Peak Name	Area mAU*min	Height mAU	Amount	Rel. Area %
1	0.635	Sulfathiazole	24.07512	630.82804	n.a.	99.98
2	1.649	n.a.	0.00459	0.17342	n.a.	0.02
3	2.046	n.a.	0.00114	0.09048	n.a.	0.00
Total:			24.08085	631.09194		100.00

Table 1: Integration