

678233**Lot: 814017****Sulfamoxole**1. General Information

Formula	C ₁₁ H ₁₃ N ₃ O ₃ S	Expiry Date	01 Nov 2027
Mol. Weight	267.30 g/mol	Store at	4°C (in the dark)
CAS-No.	729-99-7		

2. Batch Analysis

Identity	confirmed by LC-MS		
Overall Purity	97.03 % (g/g)	Expanded Uncertainty	0.40 % (g/g)
Assay Purity (HPLC)	97.03 % (g/g)	Uncertainty	0.20 % (g/g)

Certified on 28 Oct 2022



by Jacqueline Seidel

The overall purity is calculated by: $\text{Purity(\%)} = \frac{\text{Assay purity} \times (100 - \text{water content} - \text{impurities})}{100}$

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

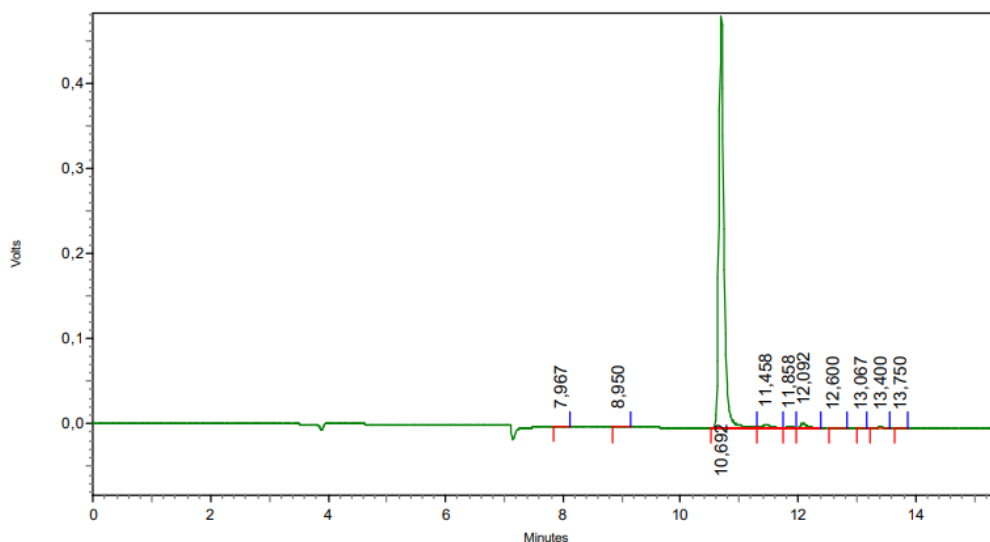
Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).

The HPC Standards GmbH, accredited by DAkkS as indicated by the accreditation number D-RM-20844-01-00, has shown competence based on ISO 17034:2017 for production of certified reference materials.

HPLC-Method

Article 678233
Lot-No. 814017
Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm
Eluent A Acetonitrile
Eluent B 0.1 % Phosphoric acid (Water)
Gradient
time %A %B
0min 0 100
22.5min 90 10
25min 90 10
Flow 1.0 ml min⁻¹
Detector UV-220nm
Injection-Volume 5 µl
Sample 0.3 mg ml⁻¹ (Acetonitrile)



Detector A - 1 (220nm)

Retention Time	Height	Area	Area Percent
7,967	989	5442	0,18
8,950	742	4729	0,16
10,692	482719	2953343	97,10
11,458	2885	30814	1,01
11,858	1171	7408	0,24
12,092	4994	33659	1,11
12,600	82	812	0,03
13,067	38	182	0,01
13,400	583	3901	0,13
13,750	233	1242	0,04

Totals	494436	3041532	100,00
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Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
1	678233	814017	Initial Version	28 Oct 2022