

#### 674898 Lot: 814398 Cefuroxime sodium salt

#### 1. General Information

Formula <b>Mol. Weight</b> CAS-No.	C16H15N4NaO8S <b>446.37 g/mol</b> 56238-63-2	Expiry Date Store at	01 Dec 2026 4°C (in the dark)
2. Batch Analysis			
Identity	confirmed by LC-MS		

**Overall Purity** 

Assay Purity (HPLC) Water

97.40 % (g/g) 2.0 % (g/g)

95.45 % (g/g)

Expanded Uncertainty 0.54 % (g/g) Uncertainty

0.25 % (g/g)

## Certified on 17 Nov 2022

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# by Heike Uhlig

The overall purity is calculated by: Purity(%) = Assay purity\*(100-water content-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. 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	674898					
Lot-No.	814398	814398				
Column	L=250mm	, ID=4.6mm	; Luna-Ome	ega C18, 1	00A, 5µm	
Eluent A	Acetonitril	•				
Eluent B			l (Water)			
Gradient	time	0.1 % Phosphoric acid (Water) time %A %B				
Cradient	Omin	0	<i>// (</i>	10		
	22.5min		h			
		90		10		
	30min	90	)	10		
Flow	1.0 ml min					
Detector	UV-220nm	n				
Injection-Volume	5 µl					
Sample	0.3 mg ml	-1 (Acetonitr	ile)			
-		-				
0.8						
0.6-						
0,07						
\$ <u>1</u> 0,4						
0,2						
	92	9,850 11,325 12,217 13,250	17,533	22,408		
	3,892	9,850 11,32 12,21 13,256	17,4	ล้		
0,0	- i'					
) 0	5	10 1		25	30	
		Mine	ites			
Detector .	A - 1 (220nm)	TT-:-1		A	Arres Descent	
	Retention Time 3,892	Heigh 879		Area 43503	Area Percent 0,78	
	9,850	304	7	21183	0,38	
	11,325 11,942	269 78999		26289 5435748	0,47 97,41	
	12,217	114		8927	0,16	
	13,250	196		17145	0,31	
	17,533 22,408	74 101		4850 22623	0,09 0,41	
			_		-,11	
	Totals					

Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
1	674898	814398	Initial Version	17 Nov 2022

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