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## CERTIFICATE OF ANALYSIS

Analysis Date:

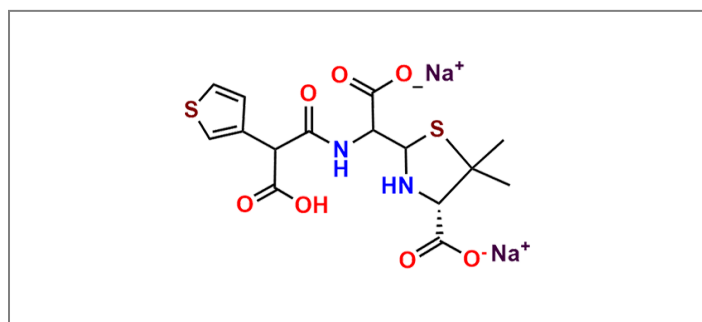
Re-test Date:

**Product Name: Ticarcillin EP Impurity D (Mixture of Diastereomers)**

### Identification:

Chemical Name: (4S)-2-((2-carboxy-2-(thiophen-3-yl)acetamido)(carboxylato)methyl)-5,5-dimethylthiazolidine-4-carboxylate, sodium salt (1:2)

Synonyms : NA  
CAS Number : NA  
CAT Number : CP-T264004  
Molecular Formula : C<sub>15</sub>H<sub>16</sub>N<sub>2</sub>O<sub>7</sub>S<sub>2</sub> : 2(Na)  
Molecular Weight : 400.43 : 2(23.0)



### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.