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## CERTIFICATE OF ANALYSIS

Analysis Date:

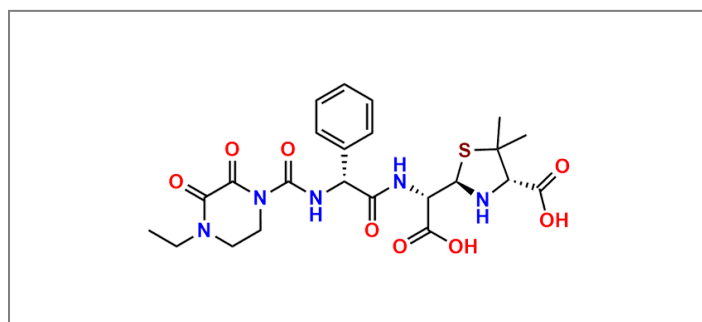
Re-test Date:

**Product Name: Piperacillin Impurity 5**

### Identification:

Chemical Name: (2R,4S)-2-((R)-Carboxy((R)-2-(4-ethyl-2,3-dioxopiperazine-1-carboxamido)-2-phenylacetamido)methyl)-5,5-dimethylthiazolidine-4-carboxylic Acid

Synonyms : NA  
CAS Number : 64817-22-7  
CAT Number : CP-P107063  
Molecular Formula : C<sub>23</sub>H<sub>29</sub>N<sub>5</sub>O<sub>8</sub>S  
Molecular Weight : 535.58



### 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.