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## CERTIFICATE OF ANALYSIS

Analysis Date: Mar 2023

Re-test Date: Feb 2025

**Product Name: Amoxicillin EP Impurity C**

### Identification:

Chemical Name: (4S)-2-[5-(4-Hydroxyphenyl)-3,6-dioxopiperazin-2-yl]-5,5-dimethylthiazolidine-4-carboxylic acid (As per EP and USP)

Synonyms : Amoxicillin USP Related  
Compound C ; Amoxicillin  
Diketopiperazine

CAS Number : 2088961-37-7

CAT Number : CP-A20003

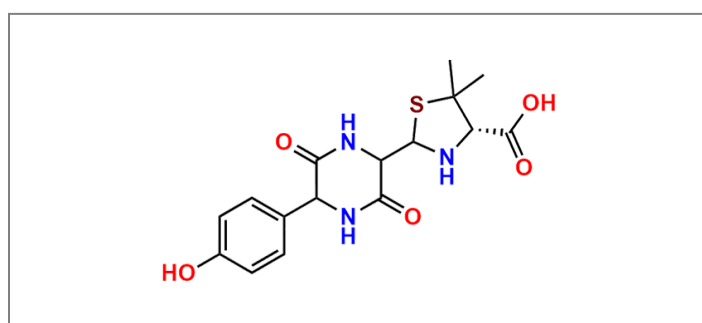
Molecular Formula : C<sub>16</sub>H<sub>19</sub>N<sub>3</sub>O<sub>5</sub>S

Molecular Weight : 365.40

Batch Number : CHEM-AMO-C

Storage Condition : Tightly closed, Inert atmosphere at -20° C

Shipping condition : At low temperature with dry ice and ice pack gel



### Analytical Information:

Sr. No.	Test	Result
1)	Description	White Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	95.24%
5)	H1NMR	Confirm to structure
6)	13CNMR	Confirm to structure
7)	Weight loss by TGA	0.025%
8)	Potency by TGA	95.21%



**Prepared and Reviewed By**

A handwritten signature in blue ink, appearing to read "Priyanka Salunkhe".

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

A handwritten signature in blue ink, appearing to read "Rohini Gagare".

Ms Rohini Gagare  
(QA Head)

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