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CERTIFICATE OF ANALYSIS

Analysis Date: Mar 2023

Re-test Date: Feb 2025

Product Name: Amoxicillin EP Impurity J

Identification:

Chemical Name: (2S,5R,6R)-6-((2R)-2-(2-((R)-2-amino-2-(4-hydroxyphenyl)acetamido)-2-((4S)-4-carboxy-5,5-dimethylthiazolidin-2-yl)acetamido)-2-(4-hydroxyphenyl)acetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid

Synonyms : Amoxicillin USP Related
Compound J ; Amoxicillin Open
Ring Dimer

CAS Number : 2088960-43-2

CAT Number : CP-A20010

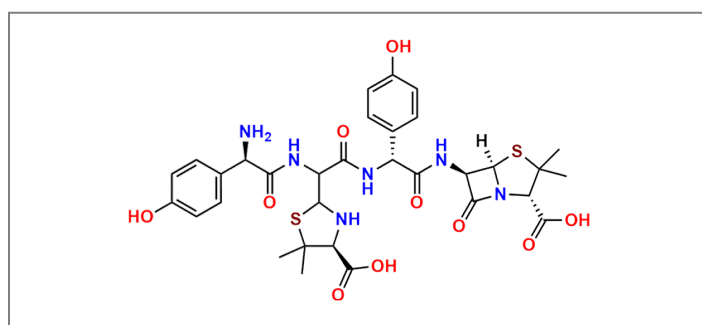
Molecular Formula : C₃₂H₃₈N₆O₁₀S₂

Molecular Weight : 730.81

Batch Number : CHEM-AMO-J

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	93.3%
5)	H1NMR	Confirm to structure
6)	13CNMR	Confirm to structure
7)	Weight loss by TGA	0.39%
8)	Potency by TGA	92.91%



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.