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CERTIFICATE OF ANALYSIS

Analysis Date: Aug 2026

Re-test Date: Jul 2028

Product Name: Benzathine Benzylpenicillin EP Impurity F

Identification:

Chemical Name: (2RS,4S)-5,5-dimethyl-2-[(2-phenylacetamido)methyl]-1,3 thiazolidine-4-carboxylic acid

Synonyms : (2RS,4S)-5,5-dimethyl-2-[(2-phenylacetamido)methyl]-1,3 thiazolidine-4-carboxylic acid ;

CAS Number : 501-34-8

CAT Number : CP-B76032

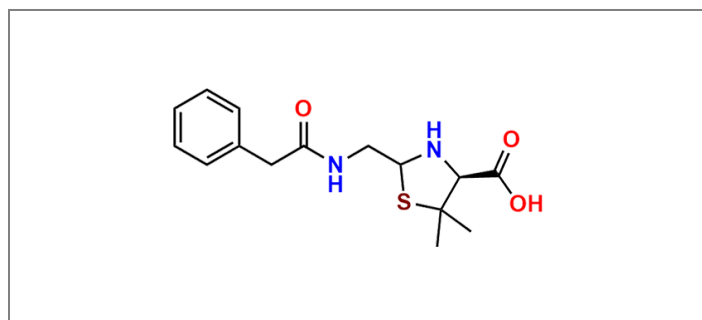
Molecular Formula : C₁₅H₂₀N₂O₃S

Molecular Weight : 308.4

Batch Number : CP-BEN-F-0826

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 Spectrometry	Confirm to structure
4)	Purity By HPLC	98.50%
5)	¹ H NMR	Confirm to structure
6)	¹³ C NMR	Confirm to Structure
7)	FT-IR	Confirm to Structure
8)	Weight loss by TGA	0.942%
9)	Potency	97.57%



Prepared and Reviewed By



Mr. Shubham Bondre
(Quality Control)

Approved By



Mr. Abhijit Kale
(Quality Assurance)

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