



CERTIFICATE OF ANALYSIS

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1. Identification

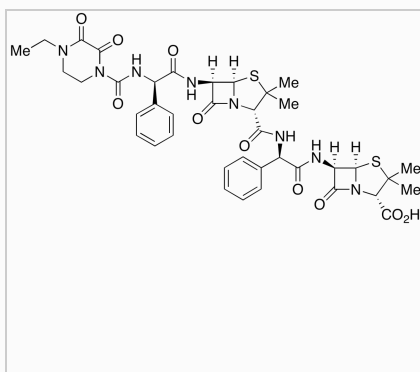
Catalogue Number: P479960

CAS Number: 65772-67-0

Product: N-Piperacillinyl Ampicillin

Synonym: [2S-[2a[S*(2R*,5S*,6S*)],5a,6β(S*)]]-6-[[[[[6-[[[(4-Ethyl-2,3-dioxo-1-piperazinyl)carbonyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-yl]carbonyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic Acid; Piperacillinylampicillin; Piperacillin EP Impurity D;

Structure:



Molecular Formula:

C₃₉H₄₄N₈O₁₀S₂

Molecular weight:

848.94

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Methanol (Slightly)

Lot Number: 16-JES-136-3

Purity: 95%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Pale Beige Solid	White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 53.57, %H: 5.43, %N: 12.86
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	+240.3° (c = 0.1, DMSO)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	Chanell Chu	5/3/2023	5/1/2027
				