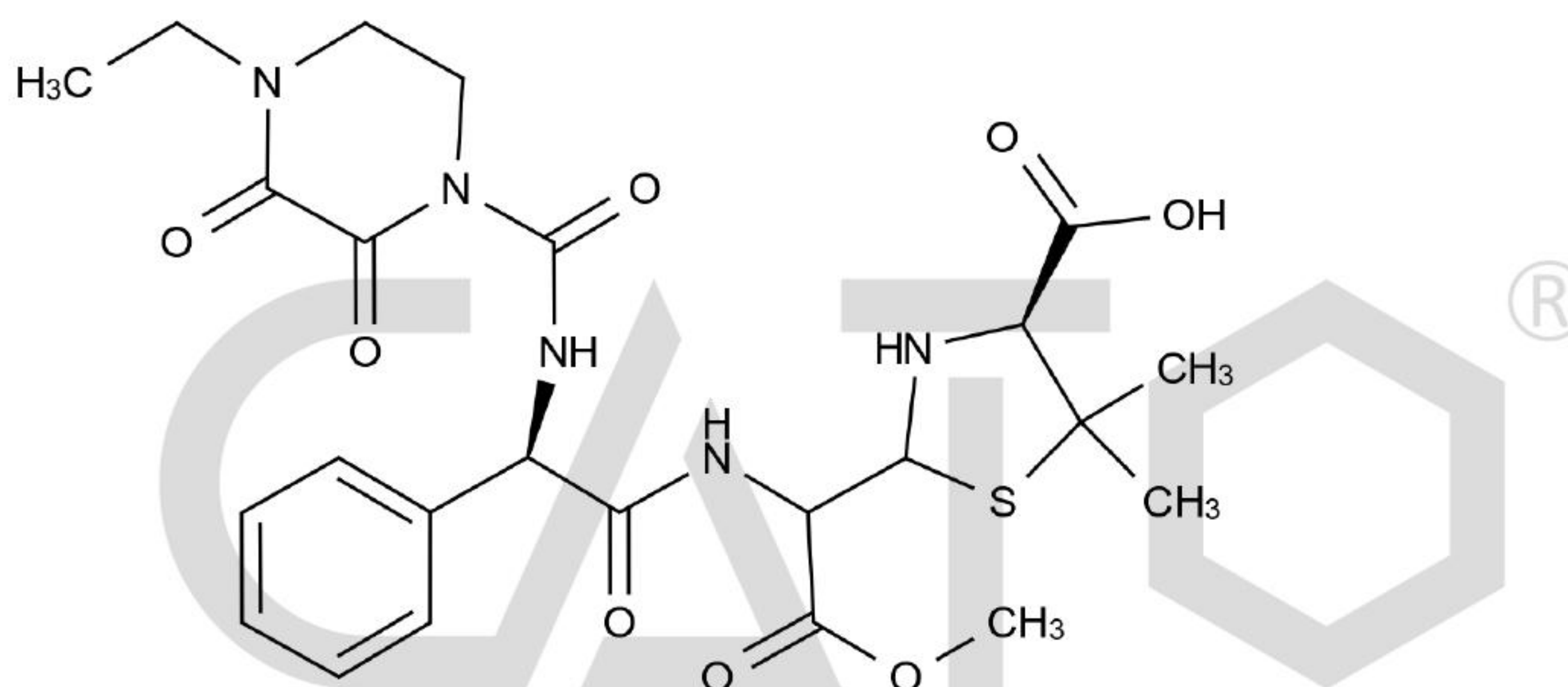


Certificate of Analysis

Reference Material & Standard

Product Name:	Piperacillin Impurity 70 (Mixture of Diastereomers)	Catalogue Number:	C4X-173270
Synonyms:	N/A	Lot Number:	0413-RE-0012
CAS Number:	N/A	Expiry Date:	Apr 11, 2026
Molecular Formula:	C ₂₄ H ₃₁ N ₅ O ₈ S	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	549.60	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.3%
Assay	qNMR	92.9%

Comment:

Isomer Mixture

Assay was determined by quantitative 1H-NMR.

Signature:

Prepared by:

Nacy

Reviewed by:

Xenia

Approved by General Manager:

David

Date: Apr 12, 2023

Date: Apr 20, 2023

Date: Apr 20, 2023

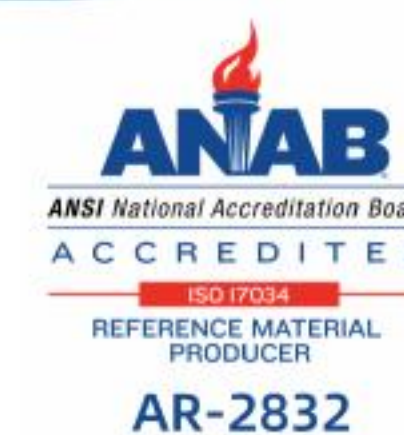
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