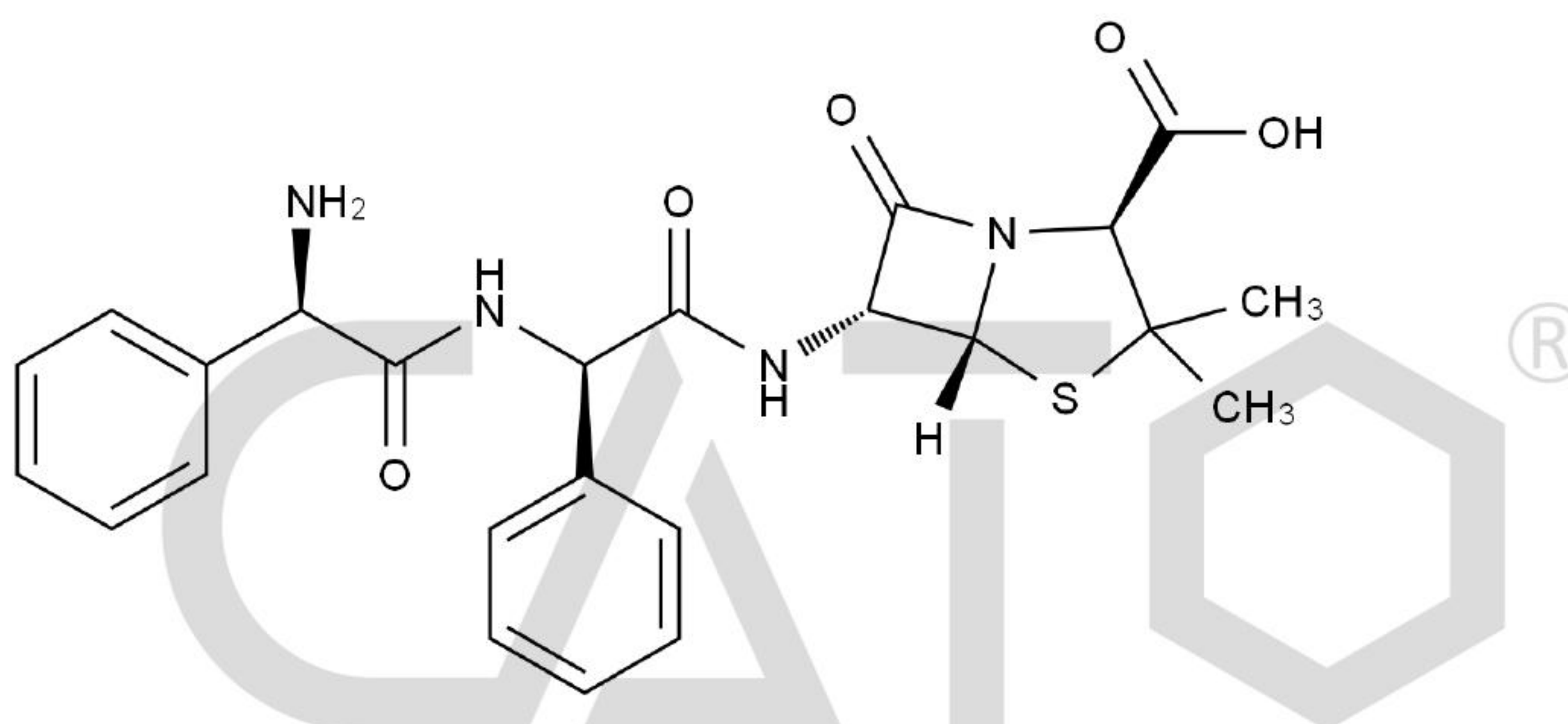


Certificate of Analysis

Reference Material & Standard

Product Name:	Ampicillin EP Impurity I	Catalogue Number:	C4X-14439
Synonyms:	N/A	Lot Number:	0518-RH-0139
CAS Number:	10001-82-8	Expiry Date:	May 17, 2028
Molecular Formula:	C ₂₄ H ₂₆ N ₄ O ₅ S	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	482.55	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.583%
Residue on Ignition	TGA	1.4231%
Loss on Drying	TGA	0.4936%
Assay		93.8%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Residue on Ignition - Loss on Drying) * Purity HPLC (%) / 100%

Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: May 18, 2026

Date: May 19, 2026

Date: May 19, 2026



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: https://www.cato-chem.com

