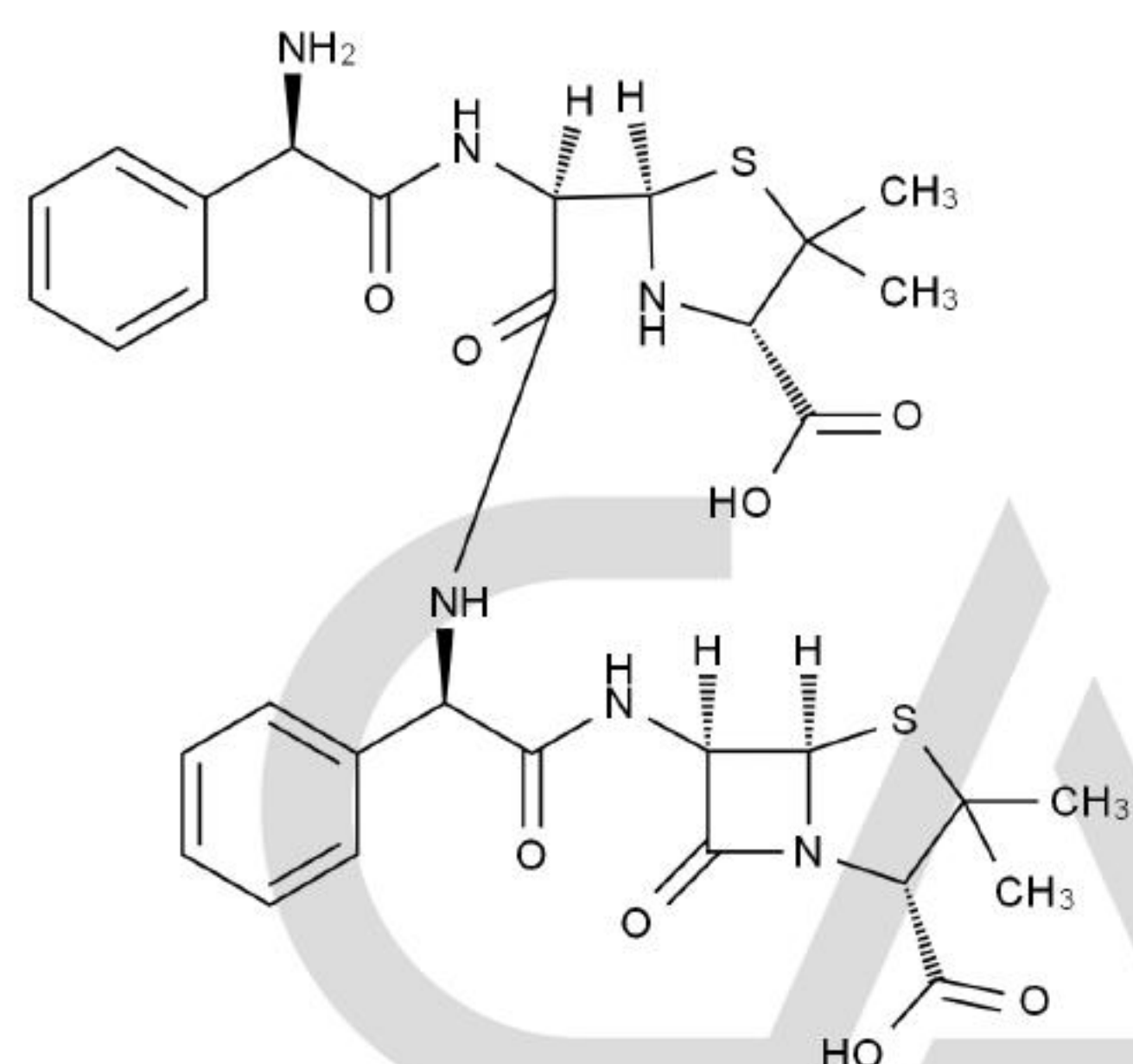


Certificate of Analysis

Reference Material & Standard

Product Name:	Ampicillin Impurity 48	Catalogue Number:	C4X-144348
Synonyms:	N/A	Lot Number:	0626-RH-0043
CAS Number:	62326-82-3	Expiry Date:	Jun 30, 2030
Molecular Formula:	C ₃₂ H ₃₈ N ₆ O ₈ S ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	698.81	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.0709%
Loss on Drying	TGA	6.8434%
Assay		90.4%

Comment:

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

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

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 14, 2026

Date: Jul 14, 2026

Date: Jul 14, 2026



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