

Certificate of Analysis

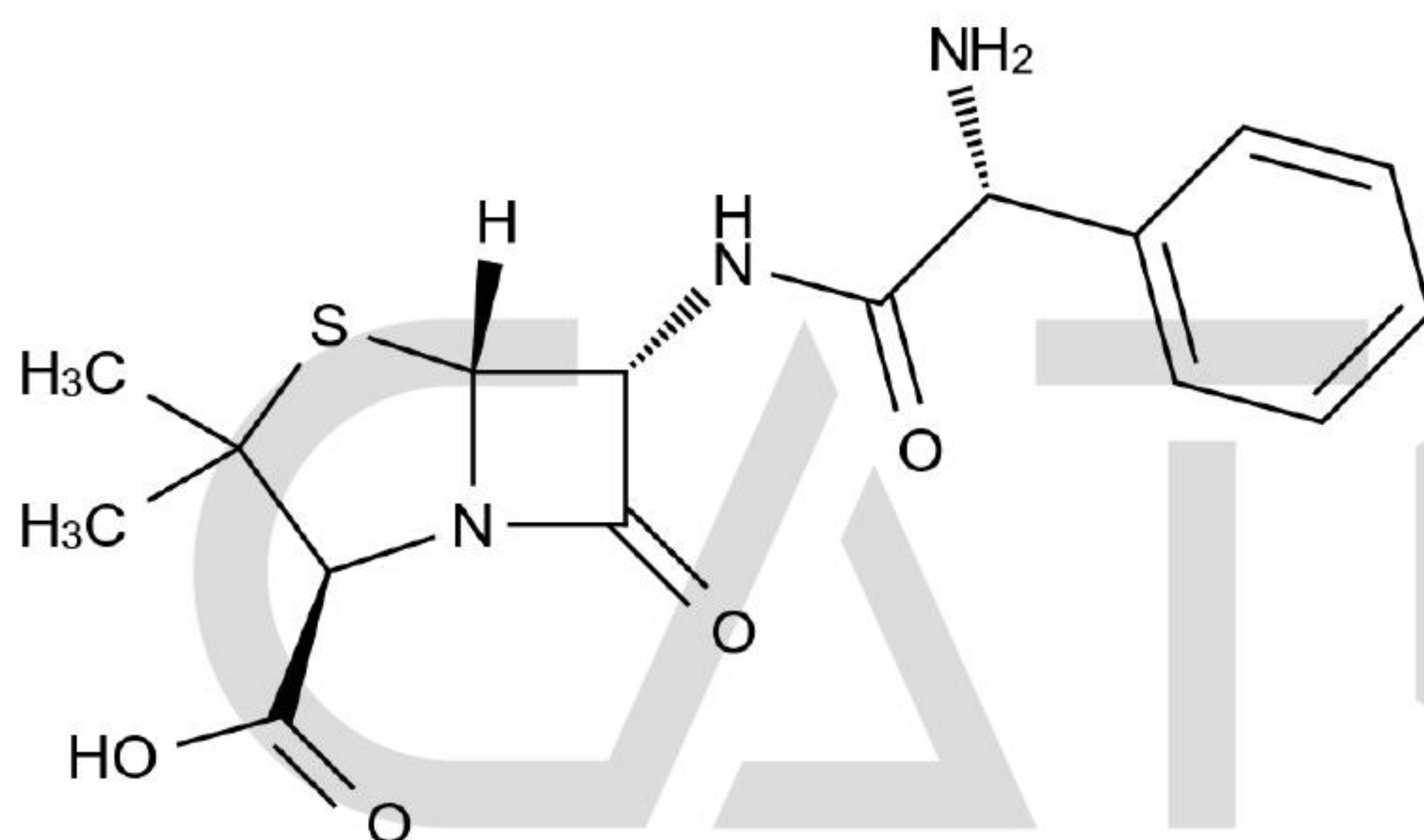
Reference Material & Standard

Product Name:	Ampicillin	Catalogue Number:	CCAD300533
Synonyms:	N/A	Lot Number:	0914-RH-0063
CAS Number:	69-53-4	Expiry Date:	Sep 13, 2030
Molecular Formula:	C ₁₆ H ₁₉ N ₃ O ₄ S	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	349.40	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.070%
Residue on Ignition	TGA	0.4219%
Loss on Drying	TGA	13.3620%
Assay		85.4%
Uncertainty		±1.4%

Comment:

1. 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.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

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Date: Sep 14, 2026

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