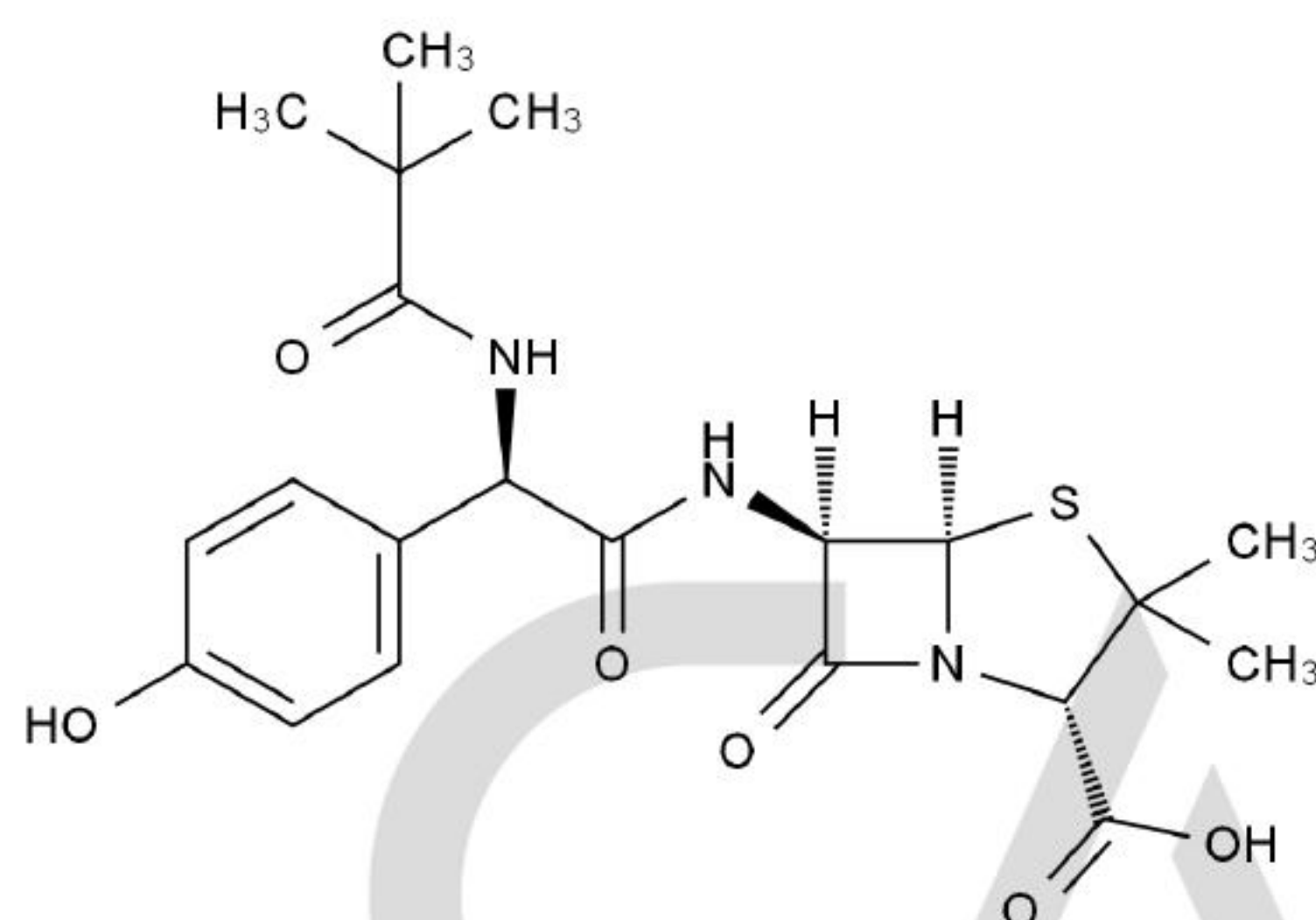


Certificate of Analysis

Reference Material & Standard

Product Name:	Amoxicillin Impurity 17	Catalogue Number:	C4X-114817
Synonyms:	(2S,5R,6R)-6-[[[(2R)-2-[(2,2-Dimethylpropanoyl)amino]-2-(4-hydroxyphenyl)acetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid	Lot Number:	0203-RH-0041
CAS Number:	1313237-94-3	Expiry Date:	Mar 01, 2027
Molecular Formula:	C ₂₁ H ₂₇ N ₃ O ₆ S	Storage:	-20°C±5°C in nitrogen and sealed
Molecular Weight:	449.52	Shipping Condition:	Shipping with Ice Packs
Solubility:	Soluble in Acetonitrile, DMSO and Water		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	94.255%
Residue on Ignition	TGA	0.4638%
Loss on Drying	TGA	1.3918%
Assay	qNMR	92.0%
Assay	Mass Balance	92.5%

Comment:

- The retest date of this product is Sep 01, 2026.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
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:

Alice

Approved by General Manager:

David

Date: Jun 02, 2026

Date: Jun 02, 2026

Date: Jun 02, 2026

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