

Certificate of Analysis

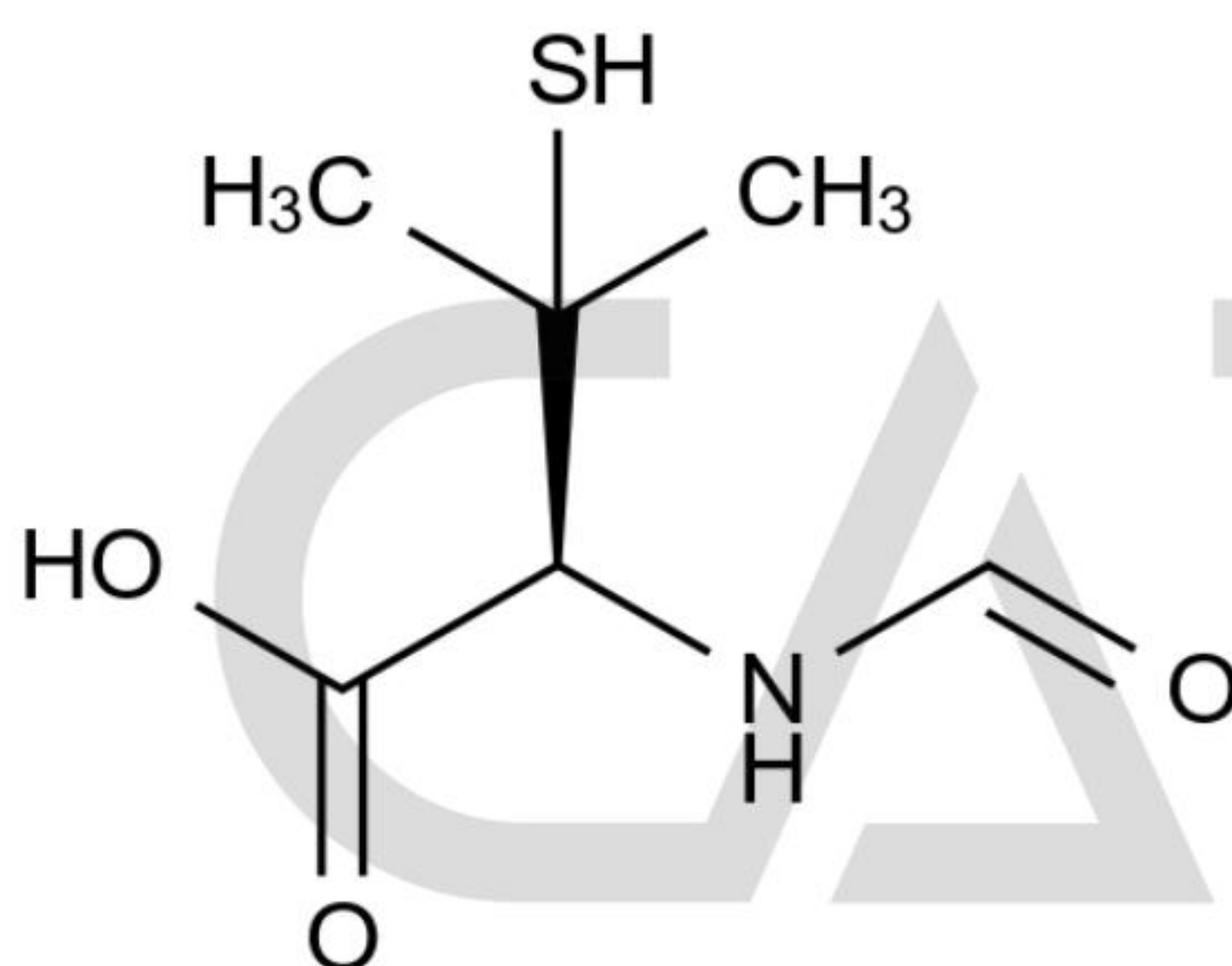
Reference Material & Standard

Product Name:	Piperacillin EP Impurity I	Catalogue Number:	C4X-173260
Synonyms:	N-Formyl-3-mercaptovaline;Formyl DL-Penicillamine	Lot Number:	0721-RH-0008
CAS Number:	13833-89-1	Expiry Date:	Jul 21, 2030
Molecular Formula:	C ₆ H ₁₁ NO ₃ S	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	177.22	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	95.1%
Assay	qNMR	91.1%

Signature:

Prepared by:

Reviewed by:

Approved by General Manager:

Date: Jul 22, 2026

Date: Jul 23, 2026

Date: Jul 23, 2026



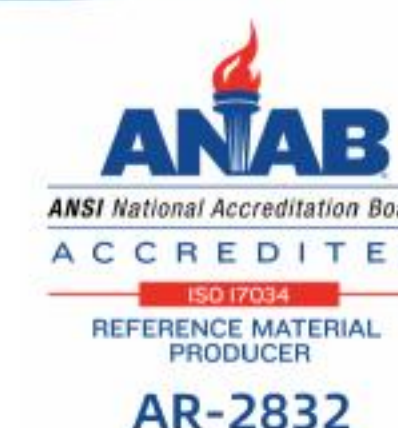
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