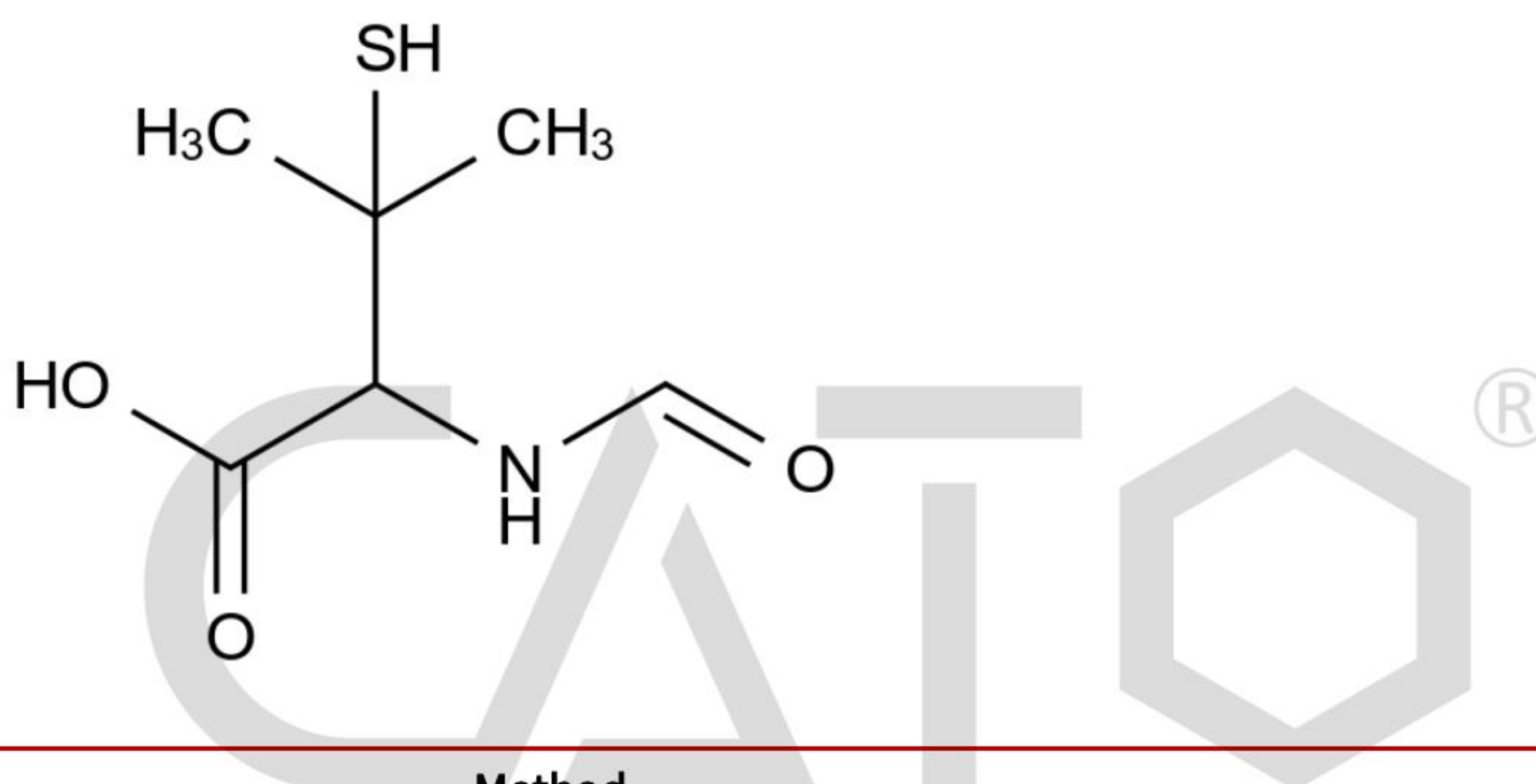


Certificate of Analysis

Reference Material & Standard

Product Name:	DL-Piperacillin EP Impurity I	Catalogue Number:	C4X-173224
Synonyms:	Tazobactam Impurity B	Lot Number:	0124-RG-0036
CAS Number:	158411-82-6	Expiry Date:	Jan 21, 2028
Molecular Formula:	C ₆ H ₁₁ NO ₃ S	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	177.22		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	96.0294%
Residue on Ignition	TGA	3.610%
Loss On Drying	TGA	0.001%
Assay		92.6%

Comment:

The calculation of the 100% 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:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Jan 24, 2025

Date: Jan 24, 2025

Date: Jan 24, 2025

