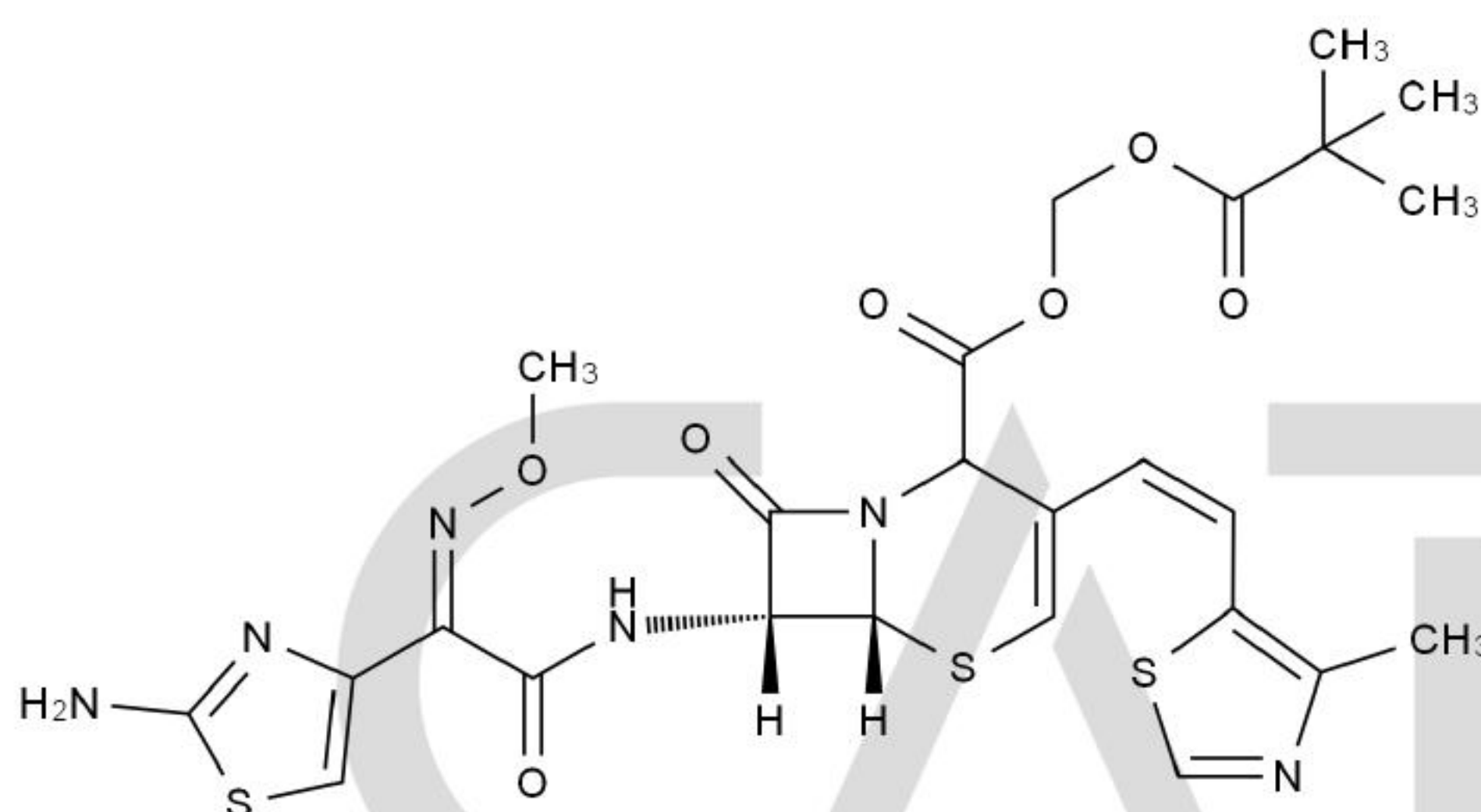


Certificate of Analysis

Reference Material & Standard

Product Name:	Cefditoren Impurity 1	Catalogue Number:	C4X-13581
Synonyms:	[(2,2-Dimethylpropanoyloxy)methyl (6R,7R)-7-[[[(2Z)-2-(2-amino-1,3-thiazol-4-yl)-2-(methoxyimino)acetyl]amino]-3-[(Z)-2-(4-methyl-1,3-thiazol-5-yl)vinyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-3-ene-2-carboxylate	Lot Number:	0407-RH-0165
CAS Number:	148774-47-4	Expiry Date:	May 06, 2030
Molecular Formula:	C ₂₅ H ₂₈ N ₆ O ₇ S ₃	Storage:	-20°C±5°C Sealed
Molecular Weight:	620.72	Shipping Condition:	Shipping with Ice Packs
Solubility:	Soluble in Acetonitrile and DMSO	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	97.125%
Water Content	Karl Fischer	2.6666%
Residual Solvents	NMR	Not detected in NMR
Residue on Ignition	TGA	0.5860%
Assay	qNMR	93.1%
Assay	Mass Balance	94.0%

Comment:

- The retest date of this product is May 06, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content} - \text{Residual Solvents} - \text{Residue on Ignition}) * \text{Purity HPLC (\%)} / 100\%$$

Water Content, Residual Solvents and Residue on Ignition 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: May 07, 2026

Date: May 07, 2026

Date: May 07, 2026

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