

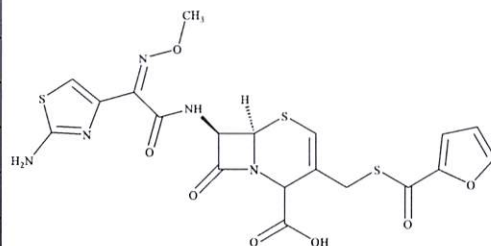
Certificate of Analysis

Certificate No.: **20250620005**



Date: June 20, 2025

Retest date: June 17, 2028

Compound Name: Ceftiofur Impurity 1	
Synonyms:	(6R,7R)-7-((Z)-2-(2-aminothiazol-4-yl)-2-(methoxyimino)acetamido)-3-(((furan-2-carbonyl)thio)methyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-3-ene-2-carboxylic acid
TLC Catalogue Number:	C-866
CAS Number:	120962-17-6
Alternate CAS Number:	N/A
Molecular Weight:	523.55
Molecular Formula:	C ₁₉ H ₁₇ N ₅ O ₇ S ₃
Source:	TLC Pharmaceutical Standards
Source Lot No.:	6825-087A5
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO



Test Description	Specifications	Results
Visual Description	Pale orange solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	98.6%
Impurity (HPLC)	RT 3.88, 0.20%; RT 5.46, 0.21 %; RT 13.32, 0.14%	
Residual Solvents (¹H NMR and ¹⁹F qNMR)	0.2% acetonitrile and 10.0% trifluoroacetic acid	
Assay (¹H qNMR)	Not less than 80.0%	83.2%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/23/2025
Approved by:	Quality Assurance		06/23/2025

Attachments: Peak Attribution Table, HPLC, IR, MS and NMR spectra.