

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue D294325

Des-(N-methyl-5-

Product: tetrazolethiolyl)furolactone

Cefoperazone

Structure:

Me N N H N N H S O O O O

CAS Number: 73240-08-1

Synonym: $[5aR-[5aa,6\beta(R^*)]]-4-Ethyl-N-[1-(4-$

hydroxyphenyl)-2-oxo-2-[(1,4,5a,6-

tetrahydro-

Molecular Formula: C23H23N5O8S

Molecular weight:

529.52

Source of Product:

Synthetic **Solubility:**

DMSO (Slightly), Methanol

(Slightly)

Lot Number: 15-JUZ-42-1

shipping This Product Is Stable To Be

Condition: Shipped At Room Temperature

Purity: 98%

Storage Condition: -20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Appearance Colourless to Off-White Solid White to Off-White Solid

NMR Conforms to Structure Conforms

Elemental Analysis Conforms %C: 51.12, %H: 4.33, %N: 12.87

HPLC Purity Report Result 99.59% (230 nm)

Specific Rotation Report Result $+109.3^{\circ}$ (c = 0.5, DMSO)

MS Conforms to Structure Conforms

Additional Information: Contains: ~1.9% Dichloromethane

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed ByReviewed ByC of A Approved ByTest DateRetest DateSwathi ReddyToni RantanenChanell Chu2/11/20222/9/2026

R. Letti

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