

Sulbactam Sodium Salt

CERTIFICATE OF ANALYSIS

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1. Identification

Product:

Catalogue S699185 CAS 69388-84-7 Number: Number:

> Synonym: (2S,5R)-3,3-Dimethyl-7-oxo-4-thia-1-

> > azabicyclo[3.2.0]heptane-2-carboxylic Acid 4,4-Dioxide Sodium Salt; CP 45899-2; Penicillanic Acid 1,1-Dioxide Sodium Salt; Sodium 1,1-Dioxypenicillanate; Sodium Penicillanate 1,1-Dioxide; Sodium Sulbactam;

Sulbactam Sodium; Sulbactam Sodium Salt;

Unasyn IM;

Structure: Molecular Formula:

CH NNaO S

Molecular weight:

255.22

Source of Product:

N/A

Solubility:

Methanol (Slightly), Water

(Slightly)

Purity: 2022-GHZ-054 97% Number:

This Product Is Stable To Be Storage Shipping Condition: -20°C, Inert atmosphere Condition: Shipped At Room Temperature

2. Warning

Lot

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: **Specifications:** Results:

Off-White to Pale Yellow Solid **Appearance** White to Pale Yellow Solid

Conforms to Structure Conforms NMR

Elemental Conforms %C: 37.24, %H: 4.09, %N: 5.22 Analysis

HPLC Purity Report Result 100.00% (ELSD)

MS Conforms to Structure Conforms

Sodium Content Report Result 9.23% by Ion Chromatography

Specific Rotation Report Result $+196.6^{\circ}$ (c = 0.2, Water)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 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 By
Sarbjeet Kaur

Reviewed ByToni Rantanen

C of A Approved By Chanell Chu

Test Date 11/28/2022

Retest Date

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11/26/2026