



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

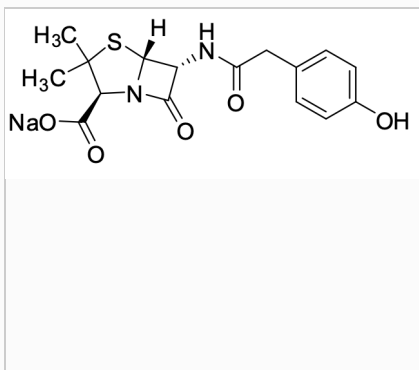
Catalogue Number: P949490

CAS Number: 5985-13-7

Product: Penicillin X Sodium Salt

Synonym: p-Hydroxybenzylpenicillin sodium; Sodium p-hydroxybenzylpenicillinate; Sodium penicillin III; Sodium penicillin X; 6-[2-(p-Hydroxyphenyl)acetamido]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic Acid Sodium Salt

Structure:



Molecular Formula:

C₁₆H₁₇N₂NaO₅S

Molecular weight:

372.37

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Water (Slightly)

Lot Number: 26-ISU-57-1

Purity: 95%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 48.01, %H: 4.80, %N: 7.31
HPLC Purity	Report Result	95.93% (205 nm)
MS	Conforms to Structure	Conforms
Sodium Content	Report Result	6.19% by Ion Chromatography
Specific Rotation	Report Result	+167.2° (c = 0.1, 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 $\pm 2\%$. 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 By	Reviewed By	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	Chanell Chu	4/6/2023	4/4/2027

