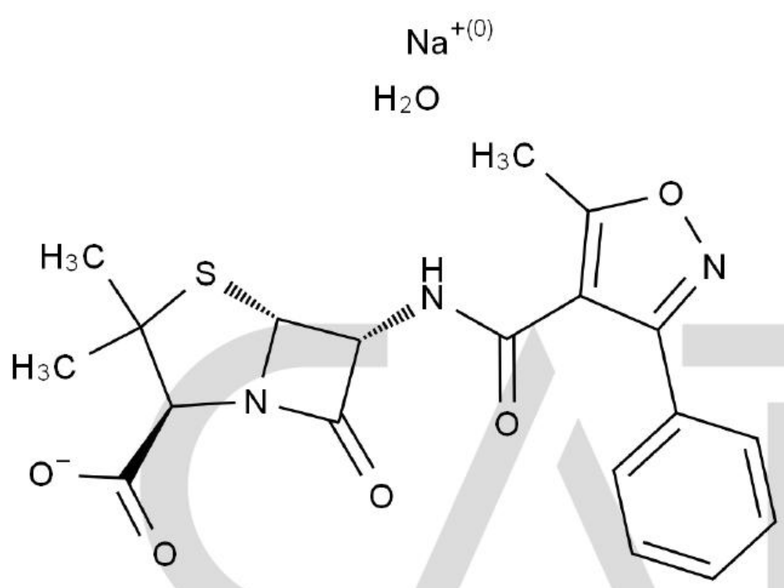
Certificate of Analysis

Reference Material & Standard

Product Name:	Oxacillin Sodium Monohydrate	**Catalogue Number:**	CCAD300345
Synonyms:	N/A	**Lot Number:**	1115-RF-0090
CAS Number:	7240-38-2	**Expiry Date:**	Nov 13, 2028
Molecular Formula:	C19H18N3O5S Na H2O	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	400.43 22.99 18.02	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.711%
Water Content	Karl Fischer	4.7559%
Water Content(Free Water)		0.6738%
Assay		97.1%
Uncertainty		±2.0%

Comment:

1. The content of crystal water is 4.0821%.
2. The calculation of the 100% method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Water Content(Free Water)) * Purity HPLC (%) /100%*
Water Content(Free Water) is considered as absolute effect, HPLC purity is considered as relative effect.
3. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by: Alice — Date: Nov 14, 2024

Reviewed by: Lisa — Date: Nov 15, 2024

Approved by General Manager: David — Date: Nov 15, 2024

CATO Research Chemicals Inc.