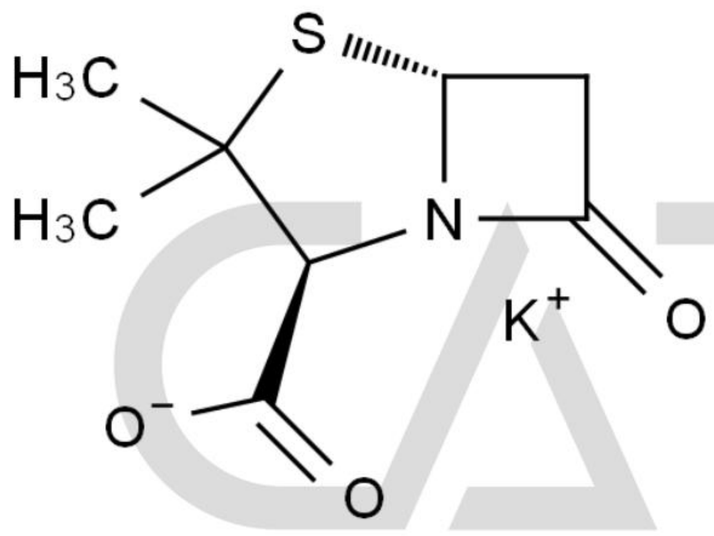
Certificate of Analysis

Reference Material & Standard

Product Name:	Penicillanic Acid Potassium	**Catalogue Number:**	C4X-189937
Synonyms:	Benzylpenicillin Impurity 37;Sulbactam Impurity	**Lot Number:**	1106-RH-0084
CAS Number:	4027-63-8	**Expiry Date:**	Nov 04, 2030
Molecular Formula:	$C_8H_{10}NO_3S\ K$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	200.23 39.10	**Shipping Condition:**	Shipping with Ice Packs

Chemical Structure:



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Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	96.8692%
Loss on Drying	TGA	1.062%
Assay	Mass Balance	95.8%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Date: Nov 10, 2026

Reviewed by: Date: Nov 11, 2026

Approved by General Manager: Date: Nov 11, 2026

CATO Research Chemicals Inc.