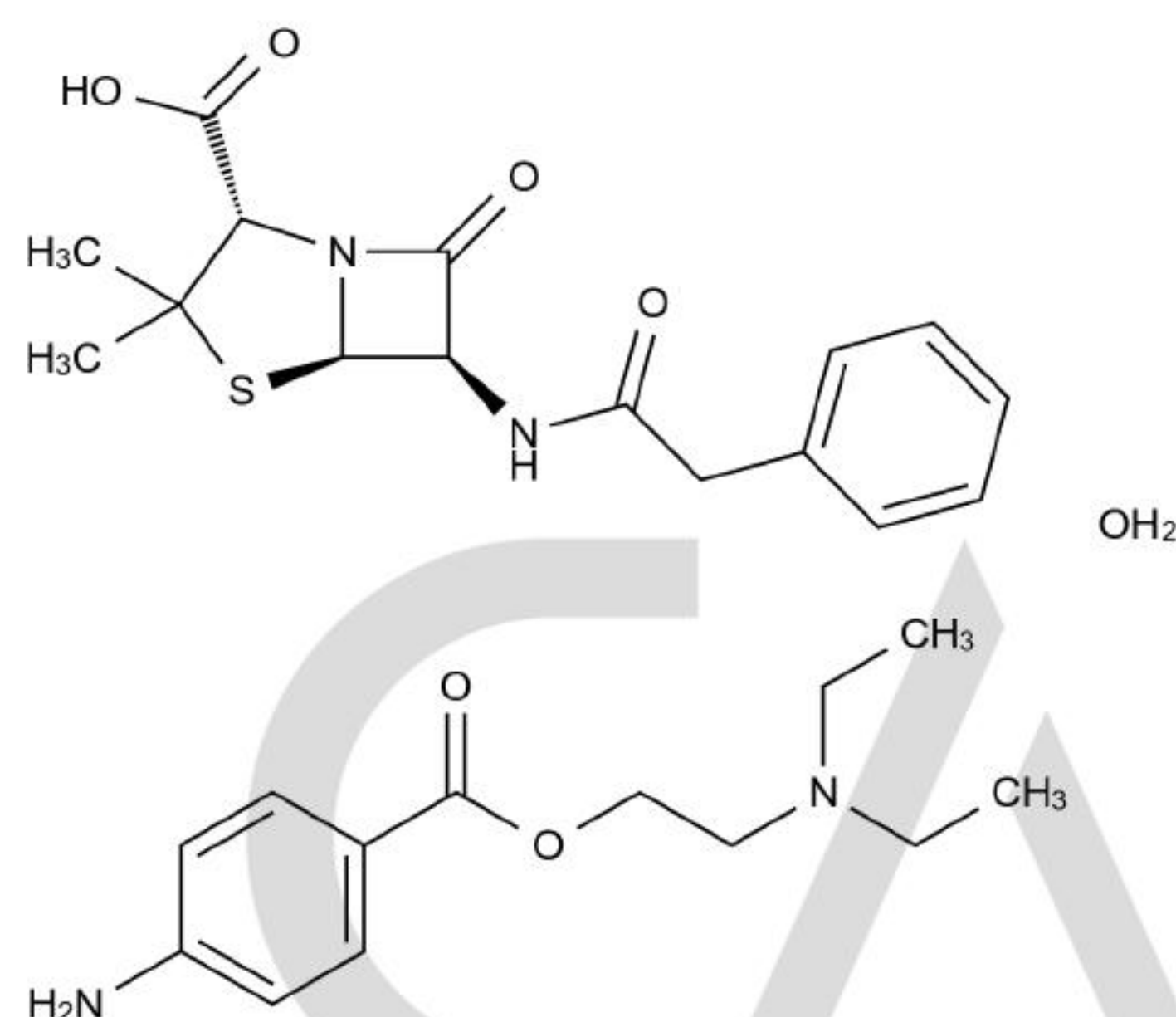


Certificate of Analysis

Reference Material & Standard

Product Name:	Penicillin G procaine hydrate	Catalogue Number:	CCAD303914
Synonyms:	N/A	Lot Number:	1111-RG-0012
CAS Number:	6130-64-9	Expiry Date:	Nov 16, 2029
Molecular Formula:	$C_{16}H_{18}N_2O_4S \cdot C_{13}H_{20}N_2O_2 \cdot H_2O$	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	334.39 236.31 18.02	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.6%
Assay	qNMR	96.3%
Uncertainty		±0.8%

Comment:

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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Nov 17, 2025

Date: Nov 17, 2025

Date: Nov 17, 2025



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