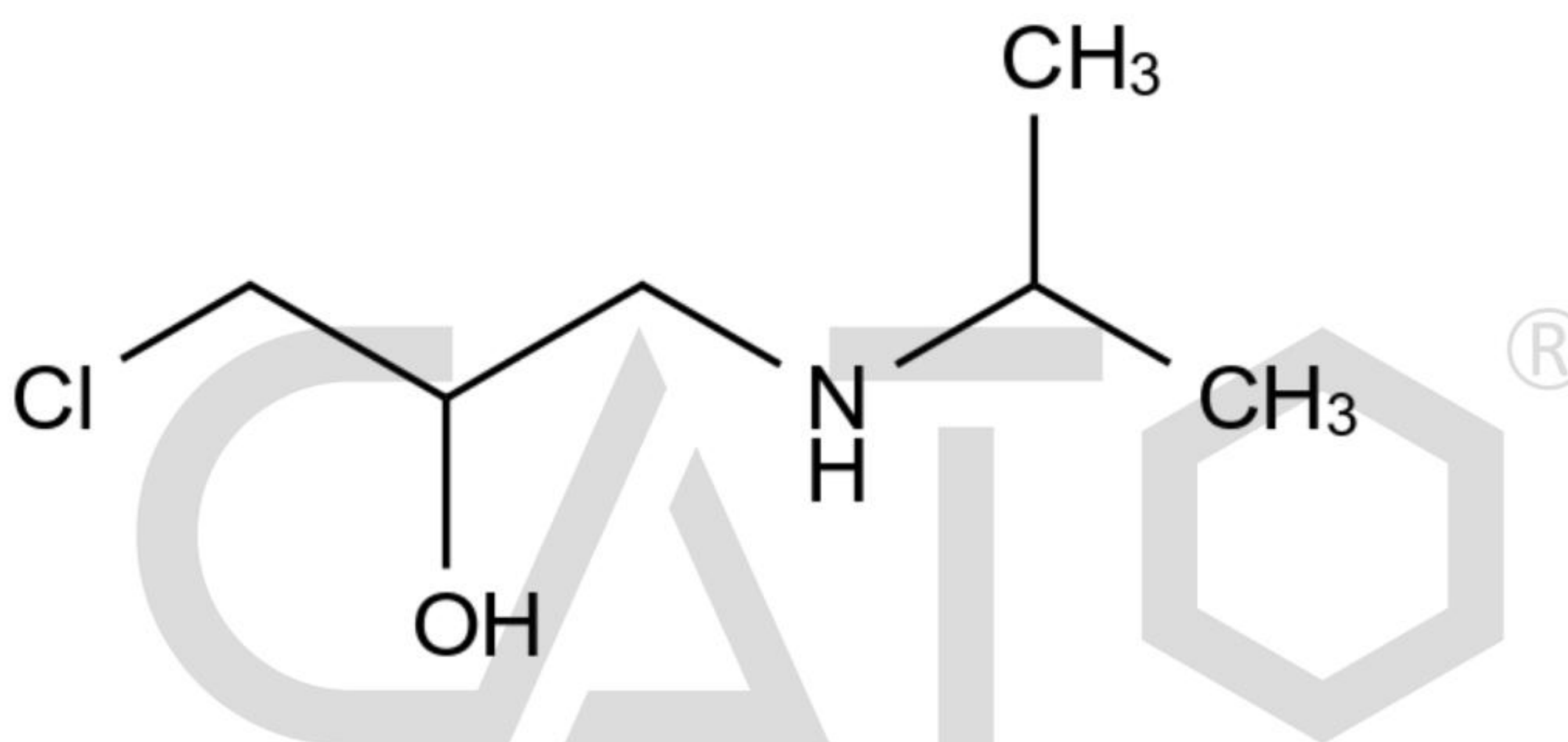


Certificate of Analysis

Reference Material & Standard

Product Name:	Esmolol Impurity N1	Catalogue Number:	C1806484
Synonyms:	N/A	Lot Number:	0422-RG-0044
CAS Number:	50666-68-7	Expiry Date:	Apr 21, 2028
Molecular Formula:	C ₆ H ₁₄ ClNO	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	151.63	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	99.1%
Assay	qNMR	90.9%

Comment:

Assay was determined by quantitative ¹H-NMR.

Signature:

Prepared by:

Lily

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Apr 23, 2025

Date: Apr 23, 2025

Date: Apr 23, 2025

