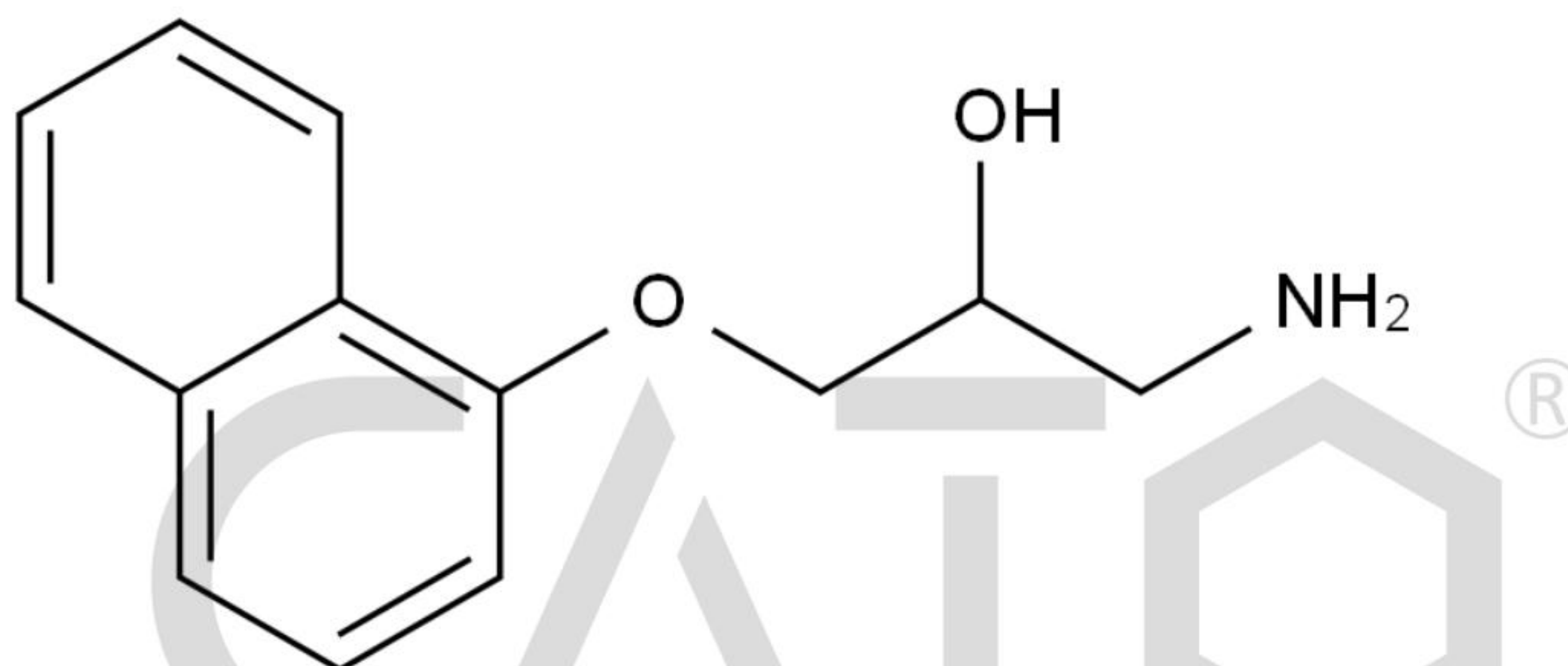


Certificate of Analysis

Reference Material & Standard

Product Name:	Propranolol Impurity N5	Catalogue Number:	CP132282
Synonyms:	N/A	Lot Number:	0824-RE-0053
CAS Number:	20862-11-7	Expiry Date:	Aug 27, 2026
Molecular Formula:	C ₁₃ H ₁₅ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	217.27	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.151%
Loss On Drying	TGA	0.7247%
Assay		97.4%

Comment:

The calculation of the 100% 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:

Koi

Reviewed by:

Lisa

Aporoved by General Manager:

David

Date: Feb 29, 2024

Date: Feb 29, 2024

Date: Feb 29, 2024

