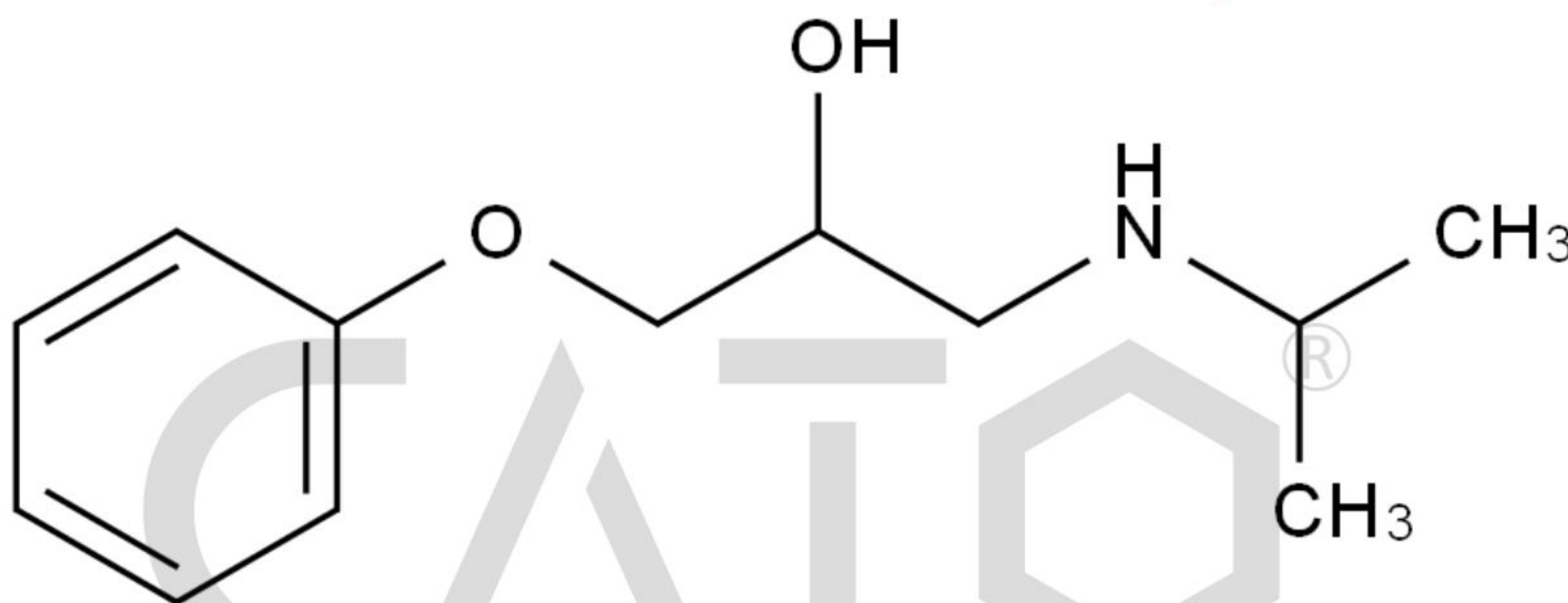


Certificate of Analysis

Reference Material & Standard

Product Name:	Metoprolol EP Impurity F	Catalogue Number:	C4X-13676
Synonyms:	N/A	Lot Number:	1210-RC-0010
CAS Number:	7695-63-8	Expiry Date:	Jul 10, 2029
Molecular Formula:	C ₁₂ H ₁₉ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	209.28	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Loss On Drying	TGA	0.6421%
Assay		99.4%

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

Approved by General Manager:

David

Date: Jul 11, 2025

Date: Jul 11, 2025

Date: Jul 11, 2025

