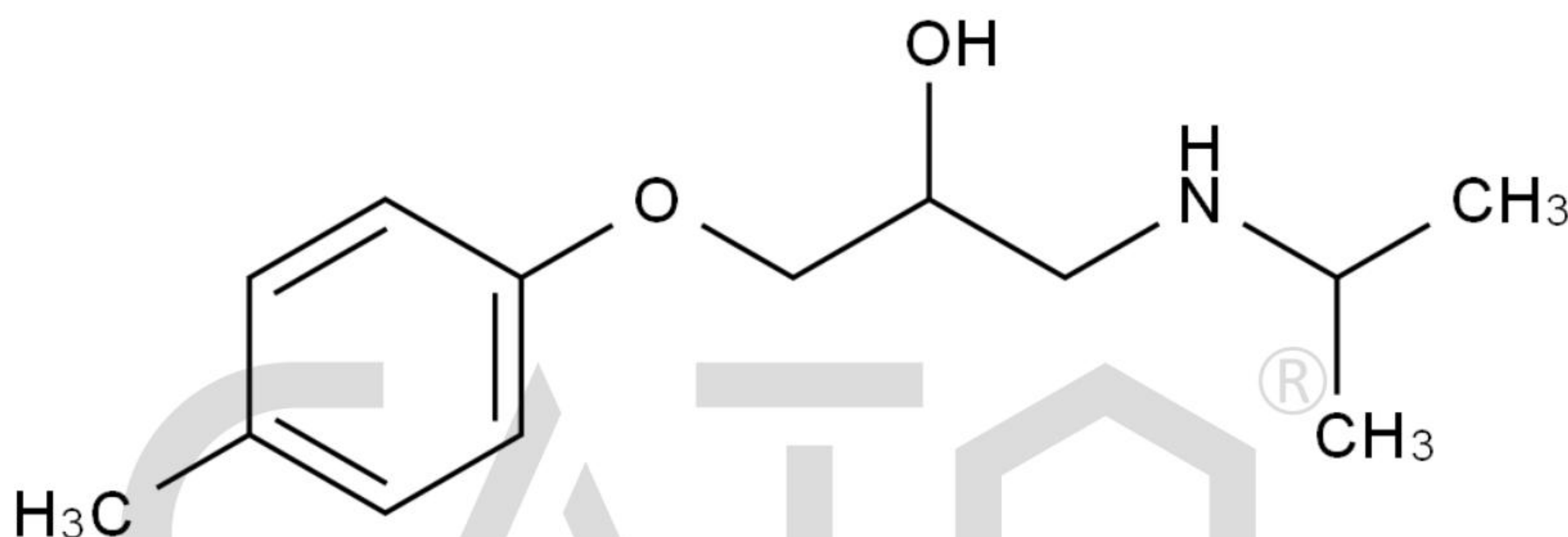


Certificate of Analysis

Reference Material & Standard

Product Name:	Bisoprolol EP Impurity R	Catalogue Number:	C4X-124718
Synonyms:	N/A	Lot Number:	1119-RF-0038
CAS Number:	5790-46-5	Expiry Date:	Jul 24, 2027
Molecular Formula:	C ₁₃ H ₂₁ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	223.31		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.371%
Water Content	Karl Fischer	0.91%
Residual Solvents	NMR	0.10% acetonitrile
Assay		98.4%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Nov 21, 2024

Date: Nov 22, 2024

Date: Nov 22, 2024

