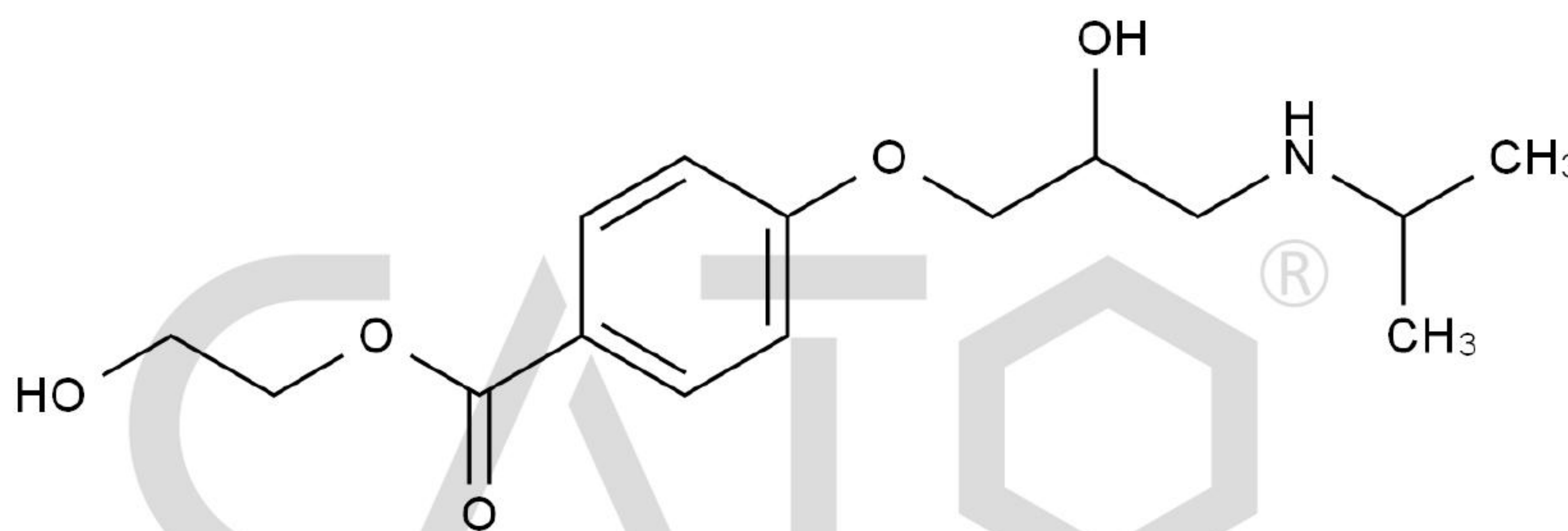


Certificate of Analysis

Reference Material & Standard

Product Name:	Bisoprolol Hydroxyethyl Ester Impurity	Catalogue Number:	C4X-124723
Synonyms:	N/A	Lot Number:	0313-RH-0084
CAS Number:	1346601-19-1	Expiry Date:	Mar 16, 2030
Molecular Formula:	C ₁₅ H ₂₃ NO ₅	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	297.35	Shipping Condition:	Shipping at Room Temperature
Solubility:	DMSO	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.174%
Loss On Drying	TGA	1.5610%
Assay		96.6%

Comment:

The calculation of the mass balance 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:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Mar 17, 2026

Date: Mar 17, 2026

Date: Mar 17, 2026



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