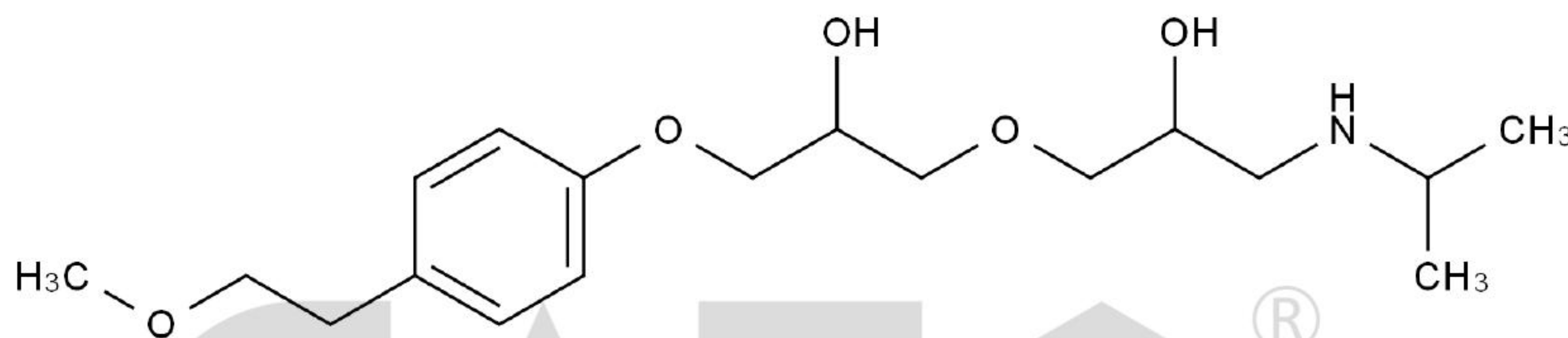


Certificate of Analysis

Reference Material & Standard

Product Name:	Metoprolol EP Impurity J	Catalogue Number:	C4X-136710
Synonyms:	N/A	Lot Number:	0518-RH-0077
CAS Number:	163685-37-8	Expiry Date:	May 13, 2030
Molecular Formula:	C ₁₈ H ₃₁ NO ₅	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	341.44	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Oil
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	98.005%
Water Content	Karl Fischer	0.45%
Assay		97.6%

Comment:

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

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

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Reviewed by:

Approved by General Manager:

Date: Jul 14, 2026

Date: Jul 14, 2026

Date: Jul 14, 2026



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