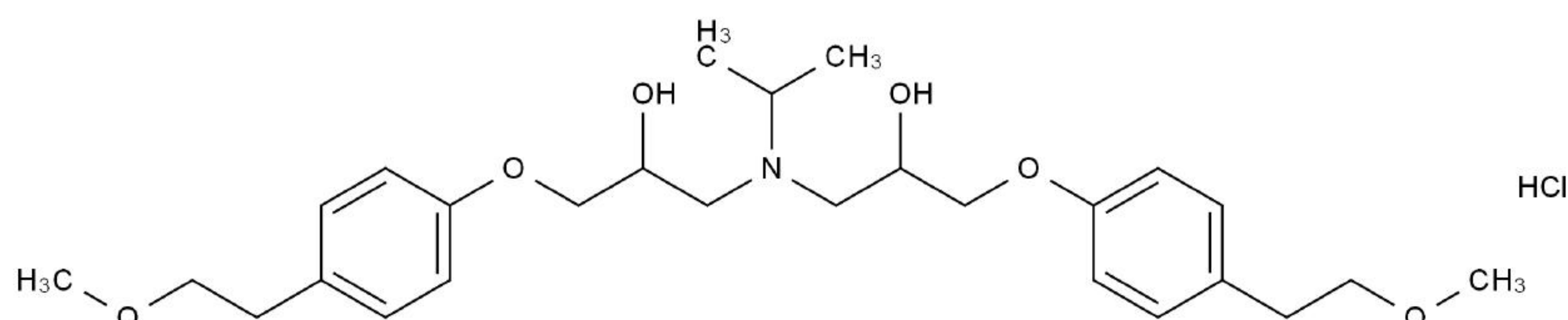


Certificate of Analysis

Reference Material & Standard

Product Name:	Metoprolol EP Impurity O HCl	Catalogue Number:	C4X-136715
Synonyms:	Metoprolol Related Compound D	Lot Number:	0825-RG-0117
CAS Number:	1486464-40-7	Expiry Date:	Aug 24, 2029
Molecular Formula:	C ₂₇ H ₄₁ NO ₆ HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	475.62 36.46		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&UV&CNMR&HNMR	Confirmed
Purity	HPLC	100.000%
Loss On Drying	TGA	0.24%
Assay		99.8%

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:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Aug 27, 2025

Date: Aug 27, 2025

Date: Aug 27, 2025

