

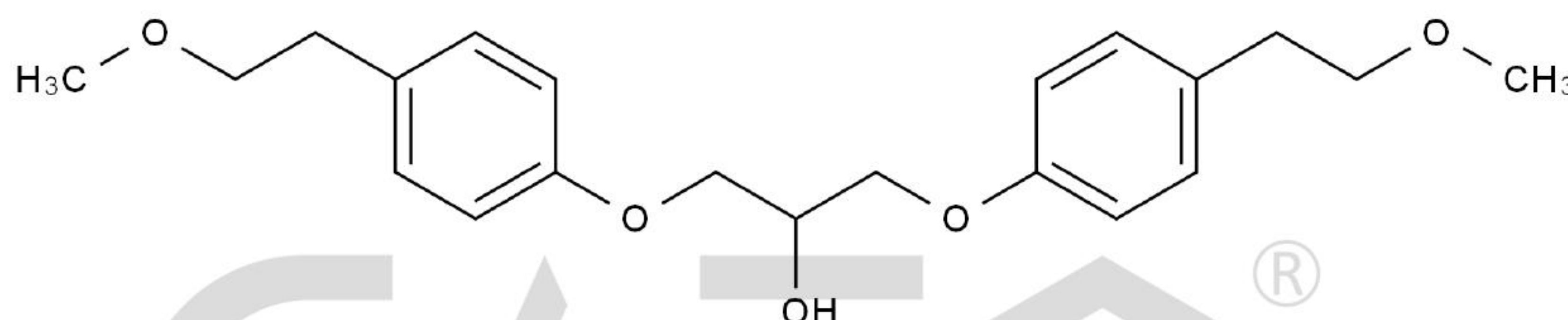
Certificate of Analysis

Reference Material & Standard

Product Name:	Metoprolol Impurity 19	Catalogue Number:	C4X-136719
Synonyms:	N/A	Lot Number:	0814-RH-0050
CAS Number:	230975-30-1	Expiry Date:	Aug 16, 2030
Molecular Formula:	C ₂₁ H ₂₈ O ₅	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	360.44	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.675%
Loss on Drying	TGA	0.2979%
Assay		97.4%

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: Aug 17, 2026

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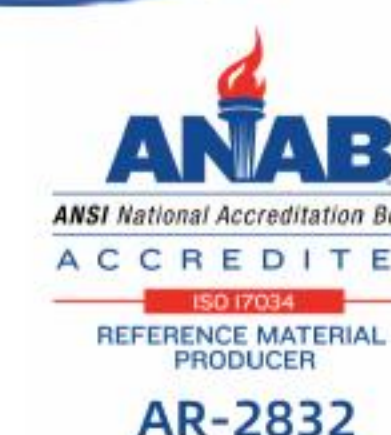
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