

Certificate of Analysis

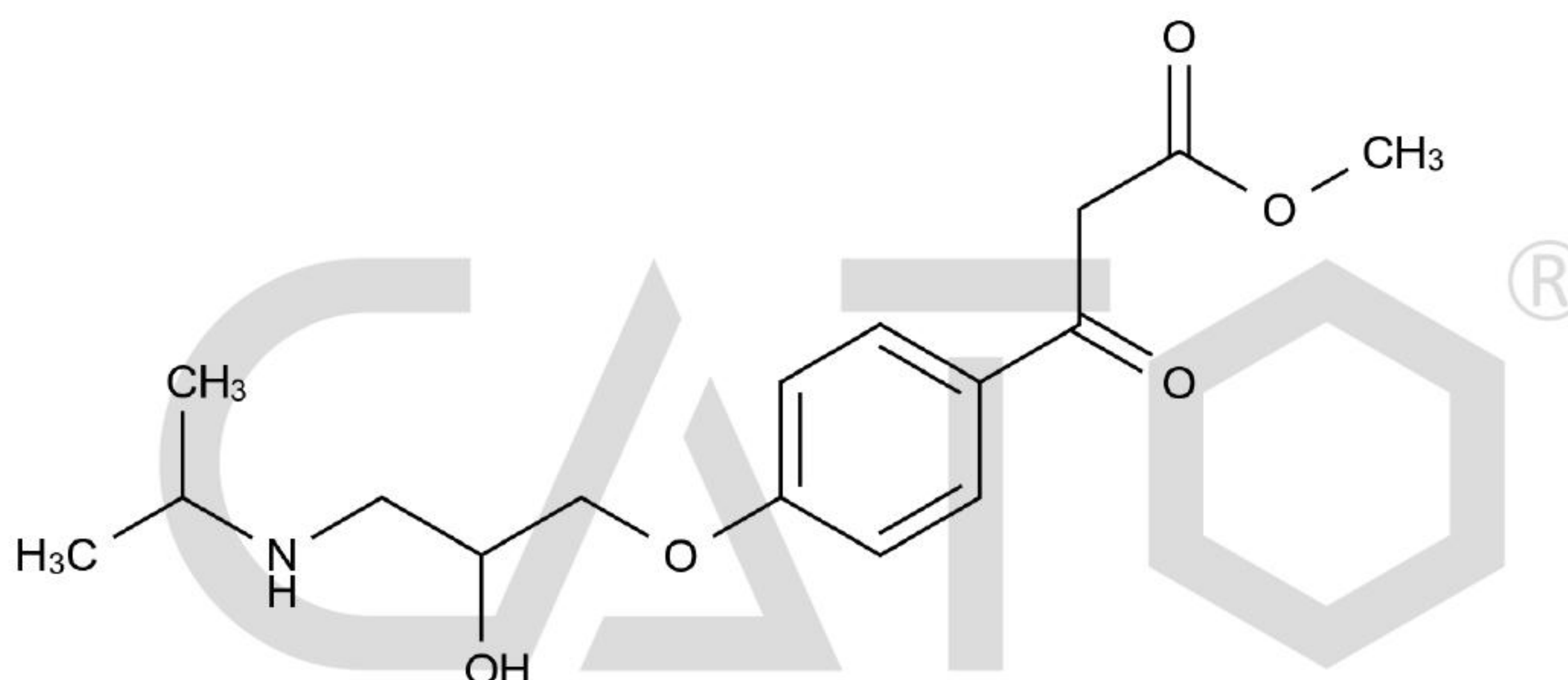
Reference Material & Standard

Product Name:	Esmolol Impurity 80	Catalogue Number:	C4X-189180
Synonyms:	N/A	Lot Number:	0710-RG-0011
CAS Number:	N/A	Expiry Date:	Jun 10, 2028
Molecular Formula:	C ₁₆ H ₂₃ NO ₅	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	309.36	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	98.351%
Water Content	Karl Fischer	0.41%
Residual Solvents	NMR	0.15% methyl tertiary butyl ether
Assay		97.8%

Comment:

The calculation of the mass balance 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:

Hin Lam

Approved by General Manager:

David

Date: Jul 10, 2025

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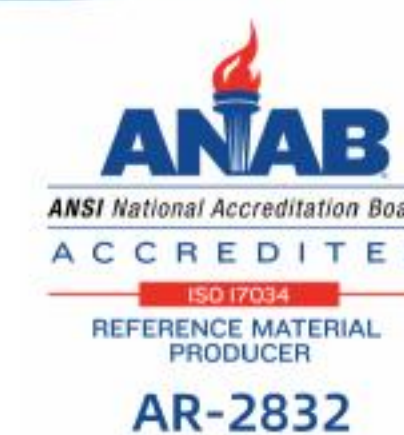
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