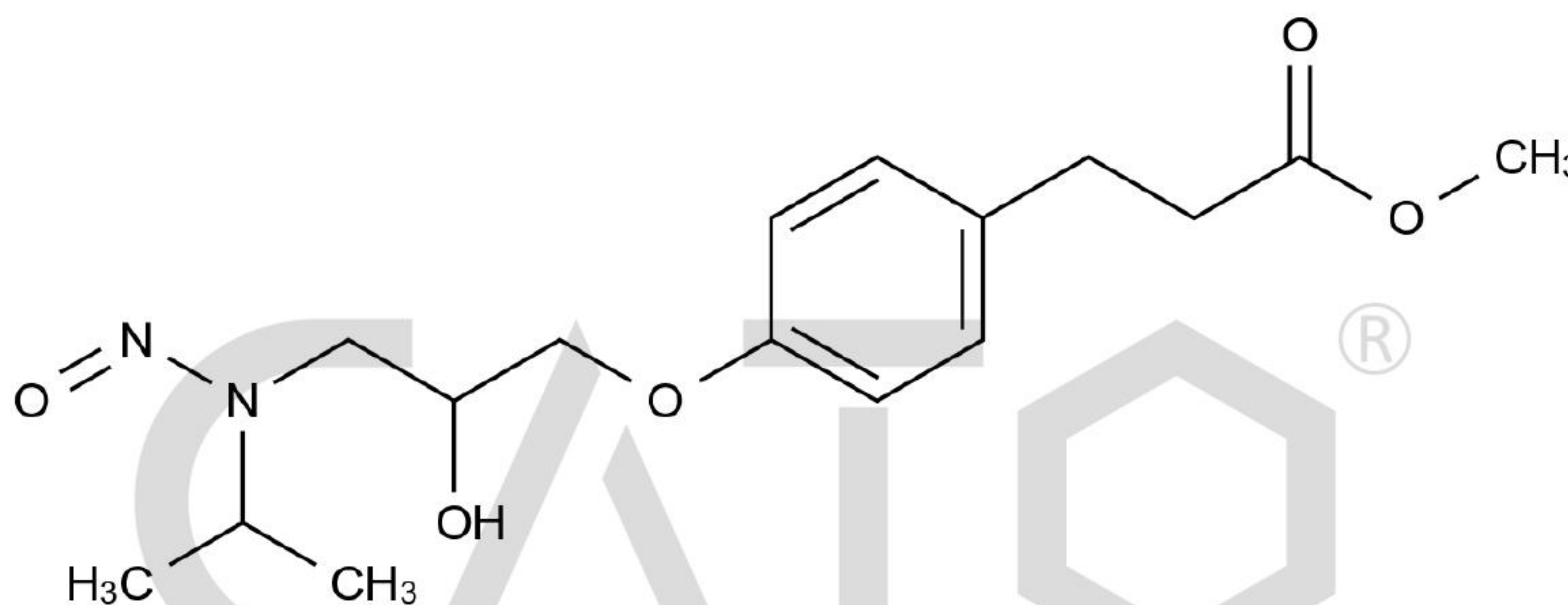


Certificate of Analysis

Reference Material & Standard

Product Name:	Esmolol Impurity 68	Catalogue Number:	C4X-189168
Synonyms:	Nitroso Esmolol	Lot Number:	0306-RH-0136
CAS Number:	N/A	Expiry Date:	Mar 10, 2030
Molecular Formula:	C ₁₆ H ₂₄ N ₂ O ₅	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	324.37	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	91.694%
Loss On Drying	TGA	0.6015%
Assay		91.1%

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 11, 2026

Date: Mar 11, 2026

Date: Mar 11, 2026

