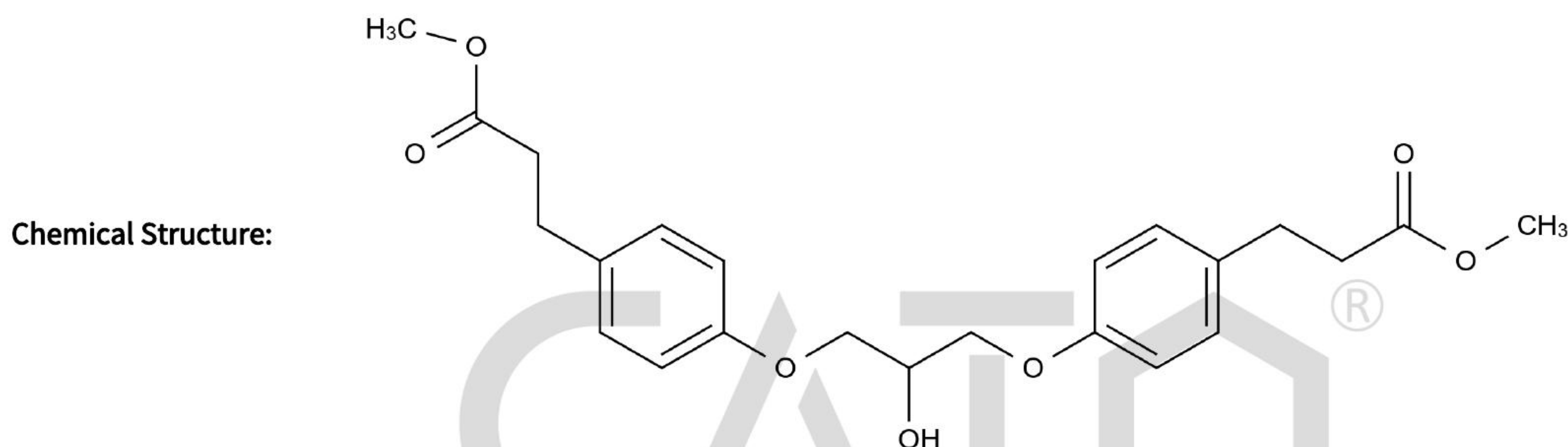


Certificate of Analysis

Reference Material & Standard

Product Name:	Esmolol Impurity 47	Catalogue Number:	C4X-189147
Synonyms:	N/A	Lot Number:	0715-RG-0041
CAS Number:	N/A	Expiry Date:	Jul 16, 2029
Molecular Formula:	C ₂₃ H ₂₈ O ₇	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	416.46		



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.916%
Loss On Drying	TGA	0.6403%
Assay		97.3%

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:

Nice

Reviewed by:

Koï

Approved by General Manager:

David

Date: Jul 17, 2025

Date: Jul 17, 2025

Date: Jul 17, 2025

