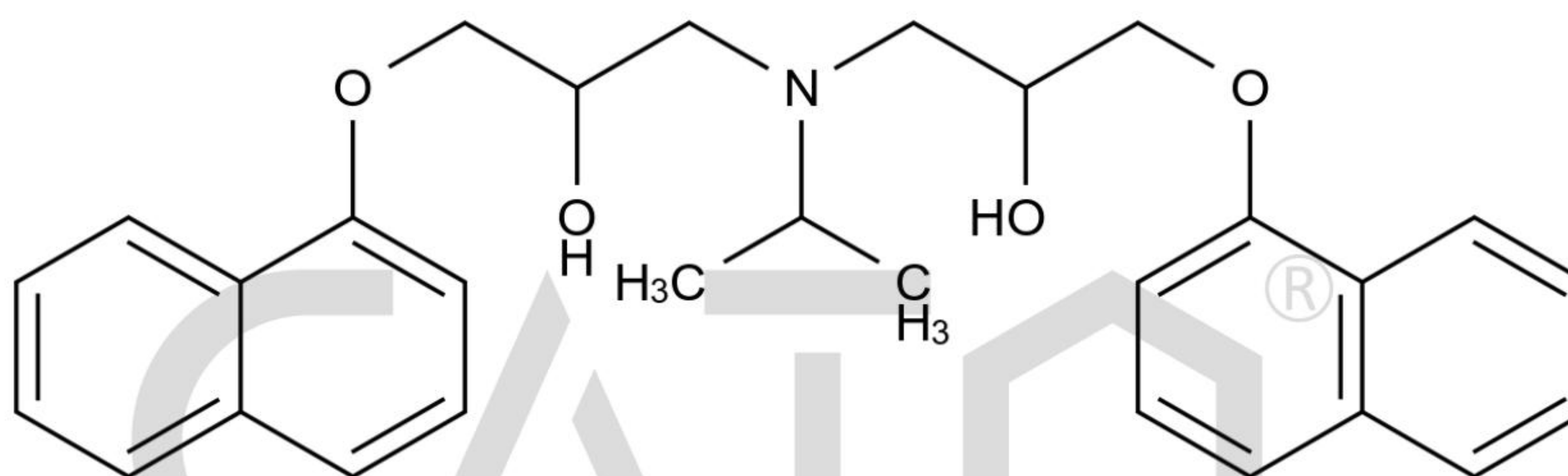


Certificate of Analysis

Reference Material & Standard

Product Name:	Propranolol EP Impurity B	Catalogue Number:	C4X-15193
Synonyms:	3,3'-(Isopropylazanediyl)bis[1-(naphthalen-1-yloxy)propan-2-ol]	Lot Number:	0407-RH-0166
CAS Number:	83314-78-7	Expiry Date:	Apr 27, 2030
Molecular Formula:	C ₂₉ H ₃₃ NO ₄	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	459.58	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in Acetonitrile and DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Brown Sticky Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	98.192%
Residue on Ignition	TGA	0.2668%
Loss on Drying	TGA	4.9034%
Assay	qNMR	92.6%
Assay	Mass Balance	93.1%

Comment:

- The retest date of this product is Apr 27, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: May 26, 2026

Date: May 26, 2026

Date: May 26, 2026



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