

Certificate of Analysis

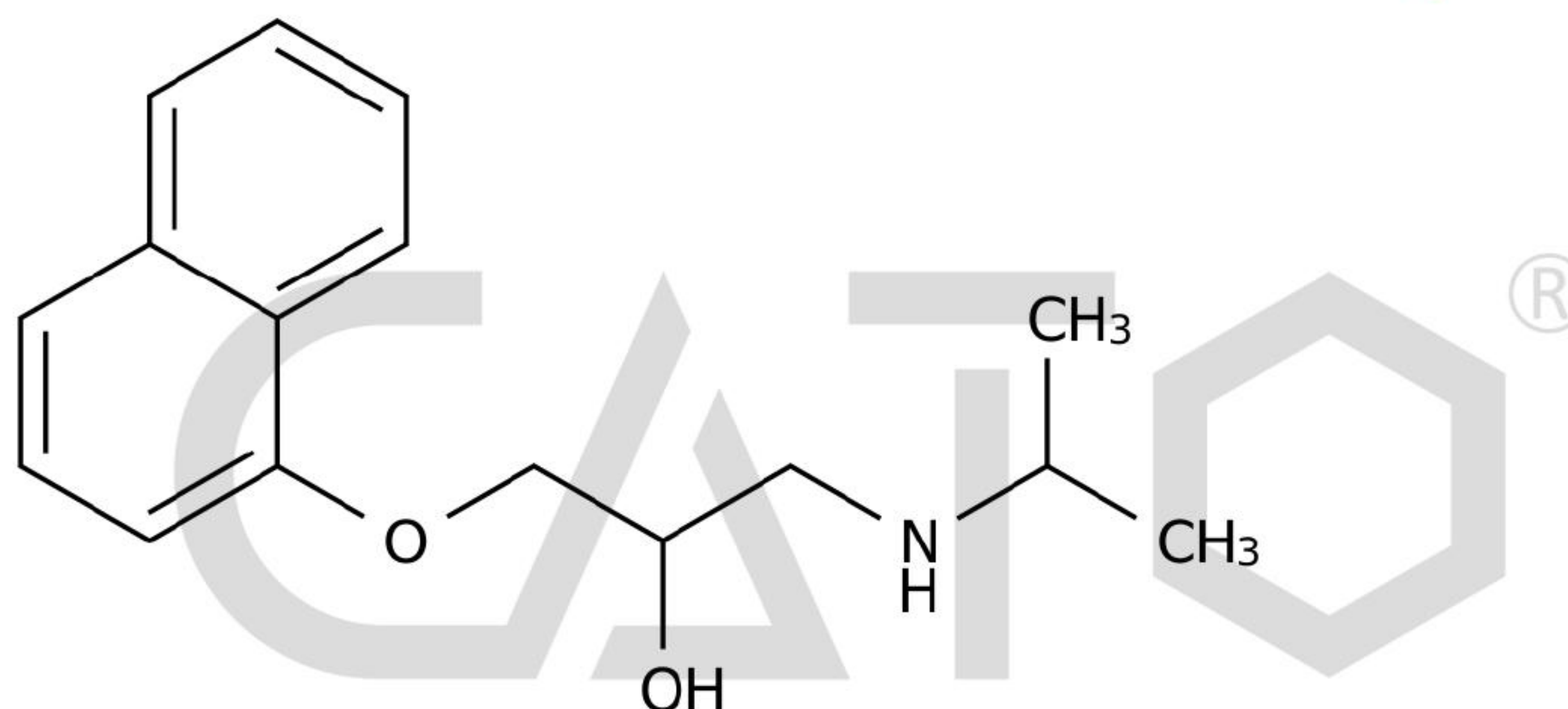
Reference Material & Standard

Product Name:	Propranolol	Catalogue Number:	CCAD302187
Synonyms:	N/A	Lot Number:	0831-RC-0007
CAS Number:	525-66-6	Expiry Date:	Sep 13, 2028
Molecular Formula:	C ₁₆ H ₂₁ NO ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	259.34	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.0000%
Loss on Drying	TGA	0.1252%
Assay		99.9%
Uncertainty		±2.0%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

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Reviewed by:

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Approved by General Manager:

David

Date: Sep 14, 2024

Date: Sep 18, 2024

Date: Sep 18, 2024



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