

Certificate of Analysis

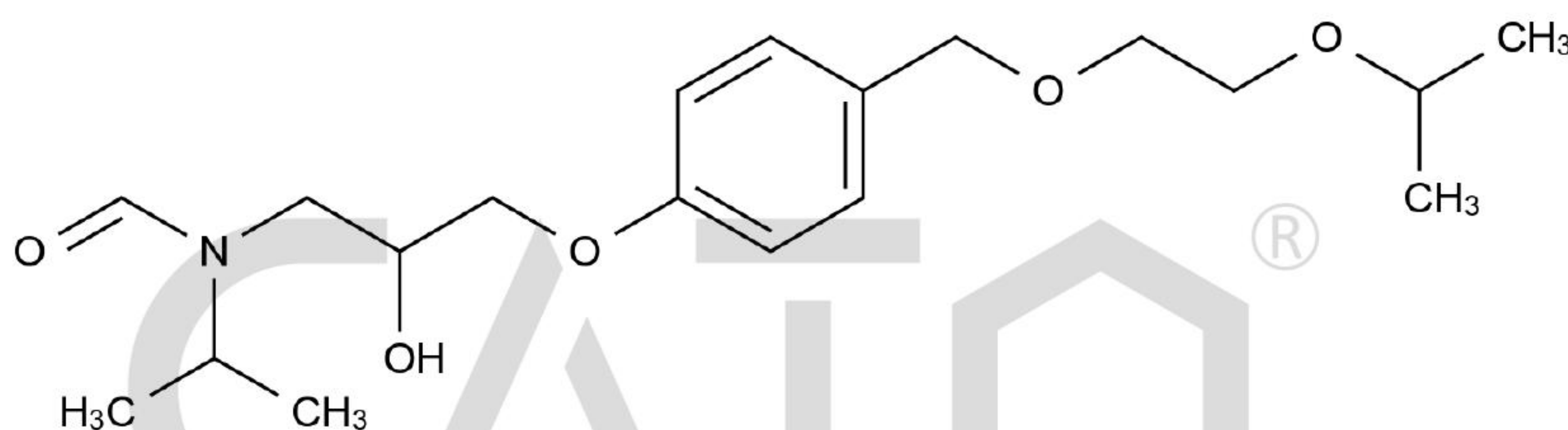
Reference Material & Standard

Product Name:	Bisoprolol Impurity 22	Catalogue Number:	C4X-124722
Synonyms:	N/A	Lot Number:	0526-RH-0135
CAS Number:	1447715-45-8	Expiry Date:	May 24, 2030
Molecular Formula:	C ₁₉ H ₃₁ NO ₅	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	353.45	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Oil
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.9846%
Loss on Drying	TGA	0.5464%
Assay		98.4%

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:

Reviewed by:

Approved by General Manager:

Date: Jun 03, 2026

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Page 1 of 6



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