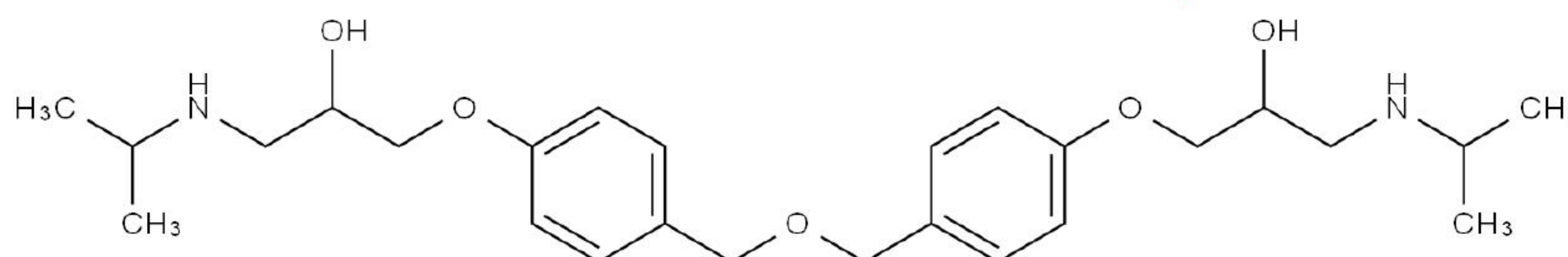


Certificate of Analysis

Reference Material & Standard

Product Name:	Bisoprolol EP Impurity D	Catalogue Number:	C4X-12474
Synonyms:	N/A	Lot Number:	0930-RA-0016
CAS Number:	1225195-71-0	Expiry Date:	May 23, 2027
Molecular Formula:	C ₂₆ H ₄₀ N ₂ O ₅	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	460.61	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.776%
Loss On Drying	TGA	0.0700%
Assay		99.7%

Comment:

The calculation of the 100% 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.

Signature:

Prepared by:

Koi

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: May 24, 2024

Date: May 24, 2024

Date: May 24, 2024

