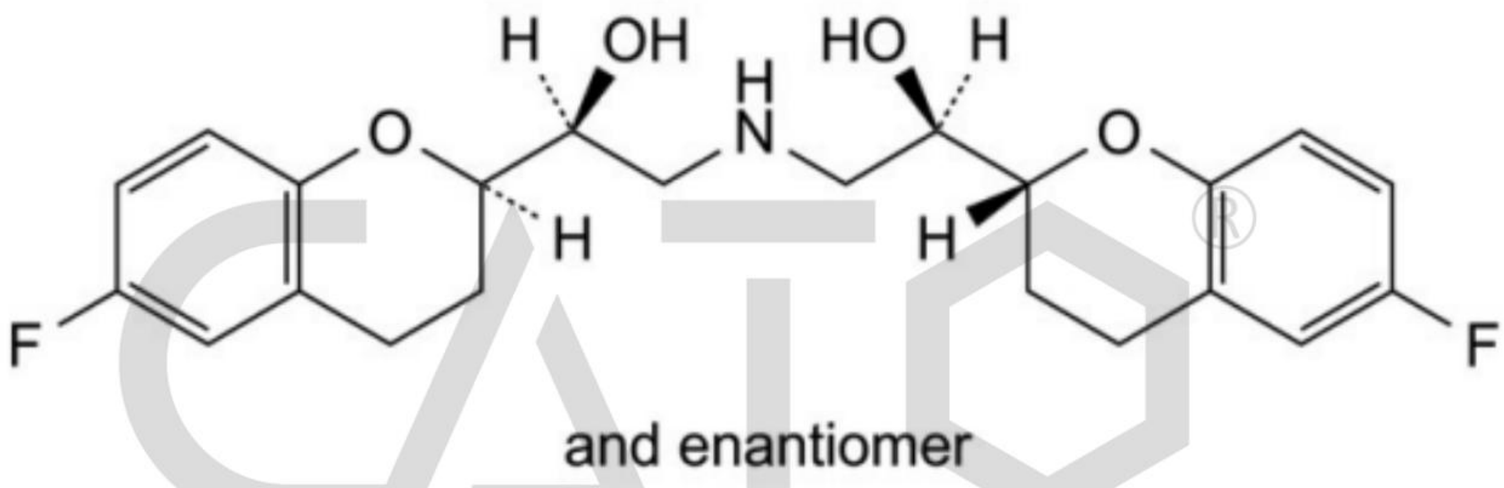
Certificate of Analysis

Reference Material & Standard

Product Name:	Nebivolol EP Impurity D	**Catalogue Number:**	C4X-196849
Synonyms:	N/A	**Lot Number:**	0804-RH-0022
CAS Number:	N/A	**Expiry Date:**	Jul 21, 2029
Molecular Formula:	$C_{22}H_{25}F_2NO_4$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	405.44	**Shipping Condition:**	Shipping with Ice Packs
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	98.2497%
Loss on Drying	TGA	0.000%
Assay		98.2%

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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: Date: Aug 04, 2026

Reviewed by: Date: Aug 05, 2026

Approved by General Manager: Date: Aug 05, 2026

CATO Research Chemicals Inc.