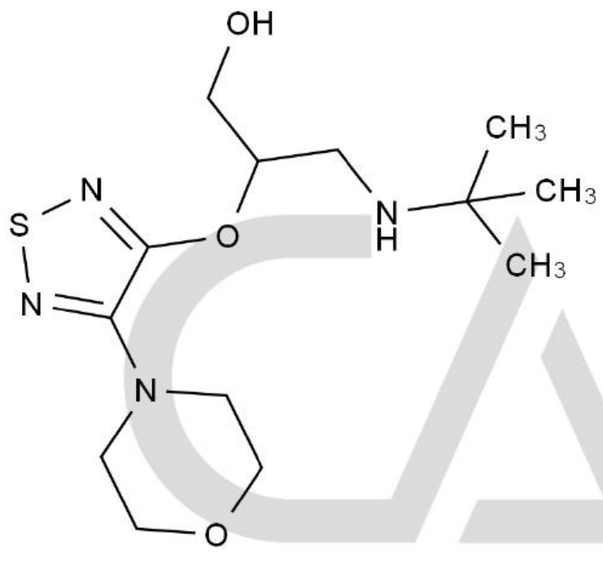
Certificate of Analysis

Reference Material & Standard

Product Name:	Timolol EP Impurity B(Mixture of Enantiomers)	**Catalogue Number:**	C4X-14962
Synonyms:	Timolol USP Related Compound B/rac-Isotimolol	**Lot Number:**	1224-RF-0071
CAS Number:	59697-06-2	**Expiry Date:**	Jun 01, 2030
Molecular Formula:	$C_{13}H_{24}N_4O_3S$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	316.42	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



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Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.845%
Loss on Drying	TGA	0.1706%
Assay		99.7%

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: Koi Date: Jun 02, 2026

Reviewed by: Lisa Date: Jun 02, 2026

Approved by General Manager: David Date: Jun 02, 2026

CATO Research Chemicals Inc.