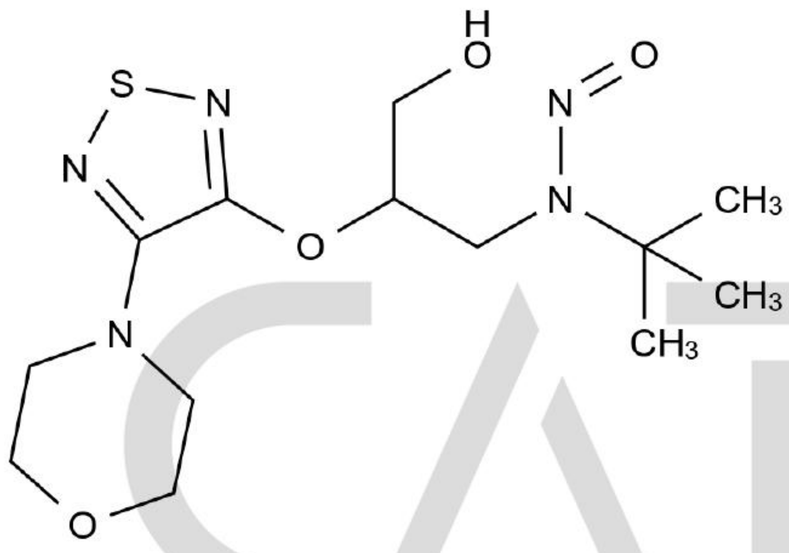
Certificate of Analysis

Reference Material & Standard

Product Name:	Timolol Impurity 28	**Catalogue Number:**	C4X-149628
Synonyms:	N/A	**Lot Number:**	1113-RH-0060
CAS Number:	N/A	**Expiry Date:**	Nov 10, 2030
Molecular Formula:	$C_{13}H_{23}N_5O_4S$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	345.42	**Shipping Condition:**	Shipping at Room Temperature

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	0.695%
Assay	Mass Balance	99.3%

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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: Nov 17, 2026

Reviewed by: Date: Nov 17, 2026

Approved by General Manager: Date: Nov 17, 2026

CATO Research Chemicals Inc.