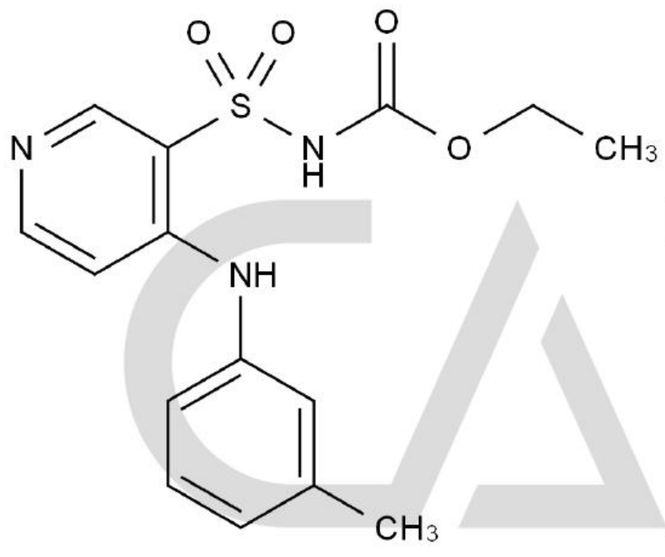
Certificate of Analysis

Reference Material & Standard

Product Name:	Torasemide EP Impurity E	**Catalogue Number:**	C4X-18365
Synonyms:	N/A	**Lot Number:**	0923-RH-0041
CAS Number:	72810-57-2	**Expiry Date:**	Sep 29, 2030
Molecular Formula:	$C_{15}H_{17}N_3O_4S$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	335.38	**Shipping Condition:**	Shipping with Ice Packs
Solubility:	Acetonitrile;Water	**Warning:**	

Chemical Structure:



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Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.791%
Loss on Drying	TGA	0.0328%
Assay	Mass Balance	99.8%

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: Alice Date: Sep 30, 2026

Reviewed by: Koi Date: Sep 30, 2026

Approved by General Manager: David Date: Sep 30, 2026

CATO Research Chemicals Inc.