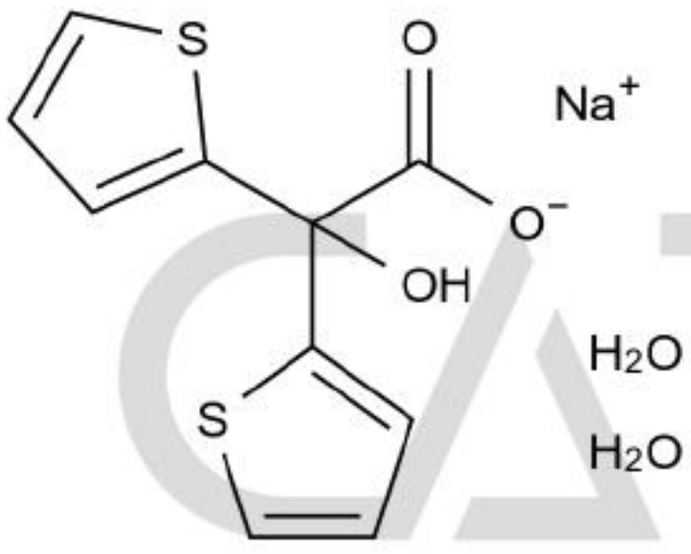
Certificate of Analysis

Reference Material & Standard

Product Name:	Tiotropium Bromide EP Impurity A Sodium Dihydrate	**Catalogue Number:**	C4X-176439
Synonyms:	N/A	**Lot Number:**	1115-SA-7226
CAS Number:	877467-46-4(Anhydrous CAS)	**Expiry Date:**	Nov 14, 27
Molecular Formula:	$C_{10}H_7O_3S_2$ Na 2*H_2O	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	239.29 22.99 2*18.02		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Solid
Identification:	LC&HNMR	Confirmed
Purity:	HPLC	96.900%

CATO Research Chemicals Inc.

Signature:

Prepared by: Lisa Date: Nov 15, 23

Reviewed by: Yuki Date: Nov 15, 23

Approved by General Manager: David Date: Nov 15, 23

CATO Research Chemicals Inc.

Directions:

1. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.

2. Minimum sample size: 1mg is recommended as the minimum sample size.

3. Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.

4. Instructions for handling and correct use: Handling in a well-ventilated place.

Document Version:

Revision No.	Date	Reason for Revision
01	Nov 15, 23	First release.

CATO Research Chemicals Inc.