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CERTIFICATE OF ANALYSIS

Analysis Date:

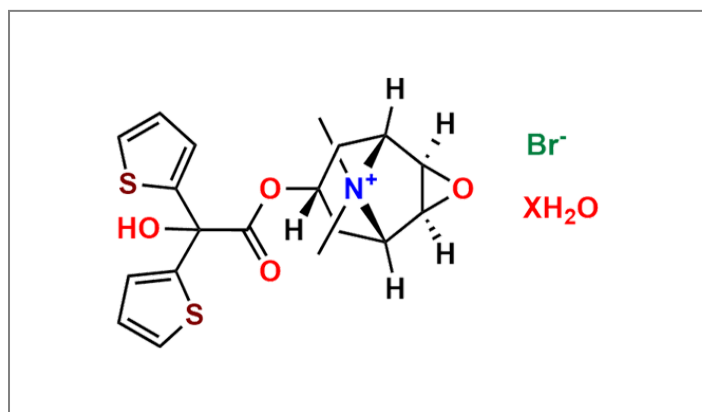
Re-test Date:

Product Name: Tiotropium Bromide Hydrate (In House Standard)

Identification:

Chemical Name: (1R,2R,4S,5S,7s)-7-(2-Hydroxy-2,2-di(thiophen-2-yl)acetoxy)-9,9-dimethyl-3-oxa-9-azatricyclo[3.3.1.0^{2,4}]nonan-9-ium bromide hydrate

Synonyms : NA
CAS Number : 139404-48-1
CAT Number : CP-T22012
Molecular Formula : C₁₉H₂₂NO₄S₂ : Br : XH₂O
Molecular Weight : 392.51 : 79.9 : X(18.02)



Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>98%
5)	H1NMR	Confirm to structure
6)	Weight loss by TGA	-
7)	Potency by TGA	-

Prepared and Reviewed By

Approved By



Ms Priyanka Salunkhe
(Manager QC Analytical)

Ms Rohini Gagare
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.