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CERTIFICATE OF ANALYSIS

Analysis Date:

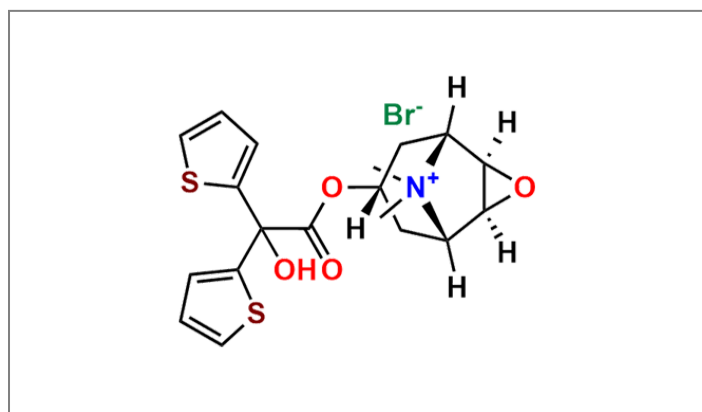
Re-test Date:

Product Name: Tiotropium Bromide (In House Standard)

Identification:

Chemical Name: (1R,2R,4S,5S,7s)-7-[(2-Hydroxy-2,2-dithiophen-2-ylacetyl)oxy]-9,9-dimethyl-3-oxa-9-azoniatricyclo[3.3.1.0^{2,4}]nonane bromide

Synonyms : NA
CAS Number : 136310-93-5
CAT Number : CP-T22009
Molecular Formula : C₁₉H₂₂N₀O₄S₂ : Br
Molecular Weight : 392.5 : 79.9



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

Ms Priyanka Salunkhe
(Manager QC Analytical)

Approved By

Ms Rohini Gagare
(QA Head)

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