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CERTIFICATE OF ANALYSIS

Analysis Date:

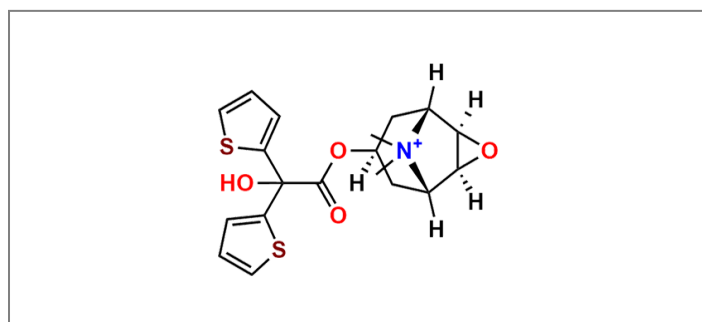
Re-test Date:

Product Name: Tiotropium Impurity I

Identification:

Chemical Name: rel-(1R,2S,4R,5S,7r)-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

Synonyms : NA
CAS Number : 136521-48-7
CAT Number : CP-T22016
Molecular Formula : C₁₉H₂₂NO₄S₂ : 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	>95%
5)	H1NMR	Confirm to structure



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.