



## **CERTIFICATE OF ANALYSIS**

Date: 17-06-2025

Product Name	Tiotropium Impurity N			
Chemical Name	(2S,3aS,5R,6R,6aR)-6-(2-hydroxy-2,2-di(thiophen-2-yl)acetoxy)-4,4- dimethylhexahydro-2H-2,5-methanofuro[3,2-b]pyrrol-4-ium			
Structure	HO HO			
Batch. No.	-	CAS No.	NA	
Analysis Date	-	Retest Date	-	
Mol. Formula	$C_{19}H_{22}NO_4S_2$	Molecular Wt.	392.5	
Long term Storage Condition		Store at 2-8 °C in well closed container		
Handling and Transit Condition		25-30 °C in well closed container		

Test	Result			
Appearance	-			
Solubility	-			
1H-NMR	Conforms to structure			
MASS	Conforms to structure			
Chromatographic Purity	>90%			
Note: This material should be used for research nurness and not for human or animal				

Note: This material should be used for research purpose and not for human or animal consumption. Any patent applicable for this product in any country is not applicable for this analytical standard/research chemical.

	Prepared By	Checked By	Approved By
Signature			
Date			

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