



ISO 9001:2015 CERTIFIED

CERTIFICATE OF ANALYSIS

Product Name	Tiotropium Bromide EP Impurity C	
Molecular Formula	C ₁₉ H ₂₂ NO ₃ S ₂ (Free Ammonium); C ₁₉ H ₂₂ BrNO ₃ S ₂ (Bromide salt)	<div>✖</div>
Molecular Weight	376.51 (Free Ammonium); 456.41 (Bromide salt)	
Batch Number	XX	
Batch Quantity	XX	
Date of Manufacturing	XX	
Date of Analysis	XX	
Next Retest Date	XX	
Catalogue Number	DCTI-C-2182	
CAS Number	136310-95-7	
COA Number	XX	
IUPAC Name	(1R,3s,5S)-3-(2-hydroxy-2,2-di(thiophen-2-yl)acetoxy)-8,8-dimethyl-8-azabicyclo[3.2.1]oct-6-en-8-ium bromide	
Storage and Handling	2-8°C	

S. No	* Test	Result
	Description	
1.	Identification i) By IR ii) By NMR iii) By MS	--
2.	Chromatographic Purity (% by HPLC)	--

Remarks: *Test or tests as mentioned above may vary as per the product nature or customer's requirement

Function	Compiled by	Reviewed by	Reviewed by	Approved by
Name	xxx	xxx	xxx	xxx
Department	Pharma Standards QC	Pharma Standards QC	Quality Assurance	Quality Assurance
Sign and <u>Date</u>				

Attachments	IR, NMR, MS spectra, HPLC Chromatogram.
Date of Shipment:	DD-MMM-YYYY

CIN: U24100TG2008PTC058509
Servey No: 542/2, IKP Knowledge Park, Koltur Village,
Shamirpet Mandal, Medchal – Malkajgiri District,
Hyderabad – 500 101, Telangana, India.
Tel. No. +918418660700, Fax. +918418660730