Certificate of Analysis

Certificate No.: 20160329B

Date: March 29, 2016 Retest date: March 25, 2019

Compound Name:	Ivabradine Impurity 15 HCl	,	
TLC Catalogue Number:	I-3030		
CAS Number:	1616710-50-9		
Molecular Weight:	482.58 36.46	O NG	
Molecular Formula:	C27H34N2O6. HCl	H ₃ C N N N N N N N N N N N N N N N N N N N	
Source:	TLC Pharmaceutical Standards	H ₃ C O CH ₃	
Source Lot No.:	2196-032A5		
Storage Conditions:	Hygroscopic, store at 2-8 °C.		

Test Description	Specifications	Results	
Visual Description	Pale yellow solid	Conforms	
Identification MS 1H NMR	Conforms to structure Conforms to structure	Conforms Conforms	
Purity (HPLC)	Not less than 98.0%	99.0%	
$[a]_D^{25.0}$ (c=0.50, CH3OH)	No reference	+3.0°	
Recommendation:	Released. The compound contains 3.1% 2-propanol according to its proton NMR.		

Name	Department	Signature	Date
Reviewed and approved by:	Analytical Services		
Approved by:	Quality Assurance		

Attachments: HPLC, MS and NMR spectra.

Phone: (905)-727-8998

Fax: (905)-727-5995