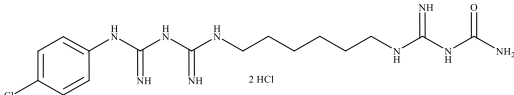


# Certificate of Analysis

Certificate No.: 20200917003

Date: September 17, 2020

Retest date: September 14, 2023

<b>Compound Name:</b>	<b>Chlorhexidine EP Impurity B DiHCl</b>	
<b>Synonyms:</b>	1-[[6-[[[(4-chlorophenyl) carbamimidoyl]carbamimidoyl]-amino]hexyl]carbamimidoyl]urea, hydrochloride (1:2)	
<b>TLC Catalogue Number:</b>	C-139006	
<b>CAS Number:</b>	1308292-89-8 (free base)	
<b>Molecular Weight:</b>	395.90 2*36.46	
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>26</sub> ClN <sub>9</sub> O. 2 HCl	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	4004-089A3	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO, Water	

Test Description	Specifications	Results
<b>Visual Description</b>	White to off-white solid	<b>Conforms</b>
<b>Identification</b>		
<b>IR</b>	Conforms to structure	<b>Conforms</b>
<b>MS</b>	Conforms to structure	<b>Conforms</b>
<b><sup>1</sup>H NMR</b>	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.0%</b>
<b>Impurity (HPLC)</b>	RT 7.49, 0.42%; RT 9.06, 0.12%; RT 9.60, 0.22%	
<b>Water Content (KF)</b>	N/A	<b>4.3%</b>
<b>Residual Solvents (NMR)</b>	No residual solvent	
<b>Assay (%)</b>	Not less than 90.0%	<b>94.7%</b>
<b>Recommendation:</b>	<b>Released.</b>	

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

**Attachments:** HPLC, IR, MS and NMR spectra.