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## CERTIFICATE OF ANALYSIS

Analysis Date: Jan 2026

Re-test Date: Dec 2028

**Product Name: Polyhexamethylene Biguanide Hydrochloride**

### Identification:

Chemical Name: 1,6-Hexanediamine-guanidine hydrochloride Copolymer

Synonyms : NA

CAS Number : 32289-58-0

CAT Number : CP-CS0553

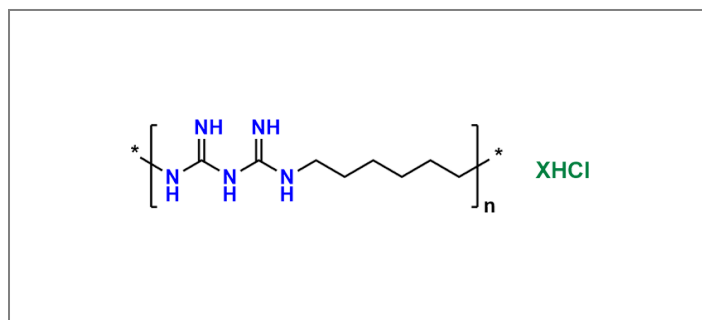
Molecular Formula :  $(C_8H_{17}N_5)_n \cdot XHCl$

Molecular Weight :  $(183.26)_n \cdot X(36.5)$

Batch Number : CP-POL-BIG-0124

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

Sr. No.	Test	Result
1)	Description	White Hygroscopic Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	Mass Spectrometry	Confirm to structure
4)	Purity By ELSD	90.48%
5)	<sup>1</sup> H NMR	Confirm to structure
6)	<sup>13</sup> C NMR	Confirm to Structure
7)	FT-IR	Confirm to Structure
8)	Weight loss by TGA	-
9)	Potency	-

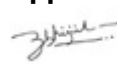


#### Prepared and Reviewed By



Mr. Shubham Bondre  
(Quality Control)

#### Approved By



Mr. Abhijit Kale  
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.