

Certificate of Analysis

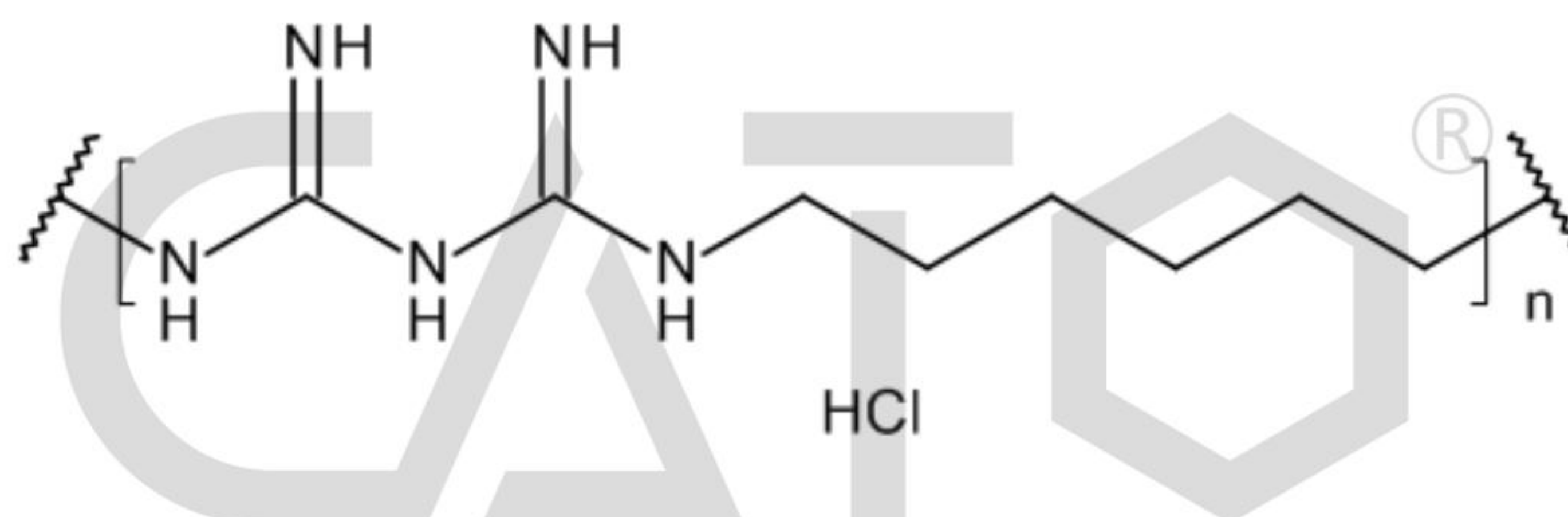
Reference Material & Standard

Product Name:	Polyhexamethylenebiguanide Hydrochloride	Catalogue Number:	CCHM700149
Synonyms:	N/A	Lot Number:	0709-RH-0075
CAS Number:	32289-58-0	Expiry Date:	Jul 05, 2030
Molecular Formula:	(C ₈ H ₁₇ N ₅) _n · HCl	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	N/A	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Crystalline Solid
Identification	HNMR	Confirmed
Purity	HPLC	98.578%
Water Content	Karl Fischer	0.9830%
Assay		97.6%
Uncertainty		±0.4%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content) * Purity HPLC (%) / 100%

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

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Approved by General Manager:

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Date: Jul 13, 2026

Date: Jul 14, 2026

Date: Jul 14, 2026



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