

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-09-27 17:10:48  
Date of Next Testing: 2027-09-27 17:10:48  
Product Name: **Polyethylenimine hydrochloride**  
CAS Number: P708348  
Specifications & Purity: Linear, AverageM<sub>n</sub>15000,PDI≤1.4  
Lot #: I2424727  
SKU #: **P708348**  
Version: **1**  
Analysis #: **415530**  
Storage Temperature: Store at 2-8°C,Argon charged

Parameter	Limit Values	Result
Molecular Number by GPC	10000-20000	12387.00
Polydispersity Index(PDI)	0-1.4	1.10000
Chlorine(Titration by AgNO <sub>3</sub> , After Oxygen Combustion)	35.7-53.5 (%)	40.10%
Appearance(P708348)	White to Faint Yellow and Faint Beige and Faint Brown Powder or Crystals	White to Faint Yellow and Faint Beige and Faint Brown Powder or Crystals
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager