

## Certificate of Analysis

Date of Testing: 2023-02-01 13:08:47  
Date of Next Testing: 2027-01-31 13:08:47  
Product Name: **Protamine sulfates**  
CAS Number: 9009-65-8  
Specifications & Purity:  
Lot #: A2330011  
SKU #: **P123670**  
**Analysis:** **158725**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Ignition Residue (as sulfate)	0-1 (%)	1.00 %
Nitrogen by Elemental Analysis (anhydrous)	22-25.5 (%)	24.20 %
Sulfate (anhydrous)	17-20 (%)	17.80 %
Loss on drying	0-6 (%)	1.40 %
Appearance (P123670)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals



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QA & QC Manager