

## Certificate of Analysis

Date of Testing: 2022-07-22 15:05:19  
Date of Next Testing: 2026-07-21 15:05:19  
Product Name: **Protamine sulfates**  
CAS Number: 9009-65-8  
Specifications & Purity:  
Lot #: G2219875  
SKU #: **P123670**  
**Analysis:** **105166**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Ignition Residue (as sulfate)	0-1 (%)	1.00 %
Nitrogen by Elemental Analysis (anhydrous)	22-25.5 (%)	24.70 %
Sulfate (anhydrous)	17-20 (%)	18.40 %
Loss on drying	0-6 (%)	1.50 %
Appearance (P123670)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals



John Su  
QA & QC Manager