

## Certificate of Analysis

Date of Testing: 2024-04-10 16:53:32  
Date of Next Testing: 2028-04-09 16:53:32  
Product Name: **Protamine sulfates**  
CAS Number: 9009-65-8  
Specifications & Purity:  
Lot #: D2402396  
SKU #: **P123670**  
**Analysis:** **336613**  
Storage Temperature: Argon charged

| Parameter                                  | Limit Values                                  | Result  |
|--|---|---|
| Ignition Residue (as sulfate)              | 0-1 (%)                                       | 0.36 %  |
| Nitrogen by Elemental Analysis (anhydrous) | 22-25.5 (%)                                   | 24.30 %                                       |
| Sulfate (anhydrous)                        | 17-20 (%)                                     | 18.50 %                                       |
| Loss on drying                             | 0-6 (%)                                       | 1.90 %  |
| Appearance (P123670)                       | White to Off-White Solid, Powder, or Crystals | White to Off-White Solid, Powder, or Crystals |



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