

## Certificate of Analysis

Date of Testing: 2023-11-24 16:55:48  
Date of Next Testing: 2025-11-13 16:55:48  
Product Name: **Polyvinylpyrrolidone**  
CAS Number: 9003-39-8  
Specifications & Purity: average Mw 58000,K29-32  
Lot #: K2320200  
SKU #: **P110607**  
Analysis: **292012**

| Parameter   | Limit Values                 | Result                       |
|---|------------------------------|------------------------------|
| Water by Karl Fischer   | 0-5 (%)                      | 3.70%                        |
| Nitrogen by Elemental Analysis  | 11.5-12.8 (%)                | 12.00%                       |
| Carbon by Elemental Analysis  | 64.7-65.1 (%)                | 64.90%                       |
| K value   | 29-32                        | 30.20                        |
| PH  | 3-5                          | 3.60                         |
| Identification  | pass                         | Pass                         |
| Infrared spectrum   | Conforms to Structure        | Conforms to Structure        |
| Appearance (P110607)  | White or light yellow powder | White or light yellow powder |
| Solubility in H <sub>2</sub> O , Colorless to Faint Yellow ,Clear,100 mg/mL | pass                         | Pass                         |



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QA & QC Manager