

## Certificate of Analysis

Date of Testing: 2024-12-10 10:25:57  
Date of Next Testing: 2026-11-30 10:25:57  
Product Name: **Polyvinylpyrrolidone**  
CAS Number: 9003-39-8  
Specifications & Purity: average Mw 8000,K16-18  
Lot #: L2406478  
SKU #: **P110608**  
Version: **1**  
Analysis #: **434268**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Aldehydes	0-0.05 (%)	0.00 %
Hydrazine(N <sub>2</sub> H <sub>4</sub> )	0-1 (ppm)	0.30 ppm
Nitrogen by Elemental Analysis	11.5-12.8 (%)	11.90 %
Heavy metal (as Pb)	0-10 (ppm)	5.10 ppm
Residue on Ignition	0-0.1 (%)	0.00200 %
Water by Karl Fischer	0-5 (%)	2.90 %
PH(5% in water)	3-5	4.60
K value	15.3-18.4	16.00
Peroxide(as H <sub>2</sub> O <sub>2</sub> )	0-400 (ppm)	8.00 ppm
Sulfate Ash	0-0.1 (%)	0.10 %
Peroxides(TiOSO <sub>4</sub> )	0-400 (ppm)	10.00 ppm
Appearance (P110608)	white to yellow powder or flakes	white to yellow powder or flakes
Identification (positive reaction)	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager