

## Certificate of Analysis

Date of Testing: 2023-11-29 10:59:27  
Date of Next Testing: 2025-11-18 10:59:27  
Product Name: **Polyvinylpyrrolidone**  
CAS Number: 9003-39-8  
Specifications & Purity: average Mw 1300000,K88-96  
Lot #: K2323031  
SKU #: **P110610**  
**Analysis: 297123**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Aldehydes	0-0.05 (%)	0.01 %
Carbon by Elemental Analysis	64.7-65.1 (%)	64.96 %
Oxygen by Elemental Analysis	14.2-14.6 (%)	14.48 %
Nitrogen by Elemental Analysis	11.5-12.8 (%)	12.20 %
Lead(Pb)	0-10 (ppm)	10.00 ppm
Total number of bacteria	0-1000 (cfu/g)	10.00 cfu/g
Ignition Residue	0-0.1 (%)	0.10 %
Water by Karl Fischer	0-5 (%)	2.80 %
Total yeasts and molds count(TYMC)	0-100 (cfu/g)	8.30 cfu/g
Hydrazine(N <sub>2</sub> H <sub>4</sub> )	0-1 (ppm)	0.36 ppm
K value	88-96	94.50
PH(1.0g in 20ml Water)	3-7	6.70000
Appearance (P110610)	White or light yellow powder	White or light yellow powder



John Su  
QA & QC Manager