

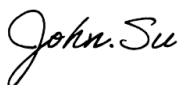
ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-09-26 15:40:51  
Date of Next Testing: 2026-09-16 15:40:51  
Product Name: **Polyvinylpyrrolidone**  
CAS Number: 9003-39-8  
Specifications & Purity: average Mw 1300000,K88-96  
Lot #: I2423502  
SKU #: **P110610**  
Version: **1**  
Analysis #: **401030**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Aldehydes	0-0.05 (%)	0.00 %
Nitrogen by Elemental Analysis	11.5-12.8 (%)	12.00 %
Lead(Pb)	0-10 (ppm)	1.63 ppm
Total number of bacteria	0-1000 (cfu/g)	30.00 cfu/g
Ignition Residue	0-0.1 (%)	0.10 %
Water by Karl Fischer	0-5 (%)	3.50 %
Total yeasts and molds count(TYMC)	0-100 (cfu/g)	10.00 cfu/g
Hydrazine(N <sub>2</sub> H <sub>4</sub> )	0-1 (ppm)	0.36 ppm
K value	88-96	94.80
PH(1.0g in 20ml Water)	3-7	6.90000
Carbon by Elemental Analysis	64.7-65.1 (%)	64.85 %
Oxygen by Elemental Analysis	14.2-14.6 (%)	14.50 %
Appearance (P110610)	White or light yellow powder	White or light yellow powder



John Su  
QA & QC Manager