

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-03-20 10:41:28
Date of Next Testing:	2026-03-10 10:41:28
Product Name:	<b>Polyvinylpyrrolidone</b>
CAS Number:	9003-39-8
Specifications & Purity:	average Mw 8000,K16-18
Lot #:	E2227091
SKU #	<b>P110608</b>
<b>Analysis:</b>	<b>333309</b>
Storage Temperature:	Argon charged

Parameter	Limit Values	Result
Aldehydes	0-0.05 (%)	0.00 %
Water by Karl Fischer	0-5 (%)	2.90 %
PH(5% in water)	3-5	4.50
Hydrazine(N <sub>2</sub> H <sub>4</sub> )	0-1 (ppm)	0.49 ppm
Nitrogen by Elemental Analysis	11.5-12.8 (%)	11.80 %
Sulfate Ash	0-0.1 (%)	0.05 %
Heavy metal (as Pb)	0-10 (ppm)	4.90 ppm
Peroxides(TiOSO <sub>4</sub> )	0-400 (ppm)	48.00 ppm
K value	15.3-18.4	17.00
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



John Su  
QA & QC Manager