

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-09-14 10:07:14  
Date of Next Testing: 2026-09-04 10:07:14  
Product Name: **Poly(1-vinylpyrrolidone-co-vinyl acetate)**  
CAS Number: 25086-89-9(Solution)  
Specifications & Purity: 50% in ethanol (copolymer,3:7)  
Lot #: G1507101  
SKU #: **P109101**  
Version: **0**  
Analysis #: **411379**  
Storage Temperature: Protected from light

Parameter	Limit Values	Result
Hydrazine(N <sub>2</sub> H <sub>4</sub> )	0-1 (ppm)	0.50 ppm
Aldehydes	0-500 (ppm)	290.30 ppm
Nitrogen by Elemental Analysis	7-8 (%)	7.50 %
Loss on drying	0-5 (%)	2.20 %
Residual monomers	0-0.4 (%)	0.28 %
Sulfate Ash	0-0.1 (%)	0.03 %
Heavy metal (as Pb)	0-20 (ppm)	0.00 ppm
Peroxides	0-400 (ppm)	212.10 ppm
K value	25.2-30.8	27.50
Saponification value	230-274	245.60
Appearance (P109101)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager