

Certificate of Analysis

Date of Testing: 2023-03-28 17:54:45
Date of Next Testing: 2025-03-17 17:54:45
Product Name: **Polyvinylpyrrolidone**
CAS Number: 9003-39-8
Specifications & Purity: average Mw 24000,K23-27
Lot #: C23231143
SKU #: **P110609**
Analysis: **196024**

Parameter	Limit Values	Result
Hydrazine(N ₂ H ₄)	0-1 (ppm)	0.12 ppm
Peroxide(as H ₂ O ₂)	0-400 (ppm)	88.10 ppm
Water by Karl Fischer	0-5 (%)	0.00 %
2-pyrrolidone	0-3 (%)	1.40 %
Sulfate Ash	0-0.1 (%)	0.01 %
Heavy metals	0-10 (ppm)	2.12 ppm
Formic Acid	0-0.5 (%)	0.20 %
PH	3-5	3.70
NVP	0-10 (ppm)	1.02 ppm
Aldehydes	0-0.05 (%)	0.01 %
K value	23-27	24.40
Nitrogen by Elemental Analysis	11.5-12.8 (%)	12.10 %
Infrared spectrum	Conforms to Structure	Conforms to Structure
Appearance (p110609)	White,Off-White Hygroscopic Powder,Crystals,Flake	White,Off-White Hygroscopic Powder,Crystals,Flake



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager