

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-18 13:04:53  
Date of Next Testing: 2024-11-07 13:04:53  
Product Name: **Polyvinylpyrrolidone**  
CAS Number: 9003-39-8  
Specifications & Purity: average Mw 1300000,K88-96  
Lot #: K2216641  
SKU #: **P110610**  
**Analysis: 152166**  
Storage Temperature: Store at 2-8°C

| Parameter                          | Limit Values                 | Result                       |
|------------------------------------|------------------------------|------------------------------|
| Aldehydes                          | 0-0.05 (%)                   | 0.03 %                       |
| Carbon by Elemental Analysis       | 64.7-65.1 (%)                | 64.90 %                      |
| Oxygen by Elemental Analysis       | 14.2-14.6 (%)                | 14.45 %                      |
| Nitrogen by Elemental Analysis     | 11.5-12.8 (%)                | 12.10 %                      |
| Lead(Pb)                           | 0-10 (ppm)                   | 2.63 ppm                     |
| Total number of bacteria           | 0-1000 (cfu/g)               | 10.00 cfu/g                  |
| Ignition Residue                   | 0-0.1 (%)                    | 0.08 %                       |
| Water by Karl Fischer              | 0-5 (%)                      | 1.40 %                       |
| Total yeasts and molds count(TYMC) | 0-100 (cfu/g)                | 10.00 cfu/g                  |
| Hydrazine(N2H4)                    | 0-1 (ppm)                    | 0.82 ppm                     |
| K value                            | 88-96                        | 93.00                        |
| PH(1.0g in 20ml Water)             | 3-7                          | 6.50000                      |
| Appearance (P110610)               | White or light yellow powder | White or light yellow powder |



John Su  
QA & QC Manager