



# Nanhang Industrial Co.,Ltd.

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## Certificate of Analysis

Item	Povidone K30 Food Grade		
Chemical Description	Polyvinylpyrrolidone		
CAS No.	9003-39-8		
Batch No.	20220506	Manuf. Date	May, 2022
Quantity	500 kg	Expiry Date	May, 2025

Test	Specification	Results
Appearance	White or yellowish-white powder	Complies
Solubility, Freely soluble in	Water, alcohol, and methanol, practically insoluble in acetone	Complies
Identification, A B C D E	Positive	Complies
Appearance of solution	Solution S is clear coloration $\cong$ B6, BY6, or R6	Complies
pH ( in 5% solution )	3.0 - 7.0	3.5
Viscosity, as K-value	29 - 32	30.1
Aldehydes, as Acetaldehyde	$\cong$ 500 ppm	39 ppm
Peroxides, as H <sub>2</sub> O <sub>2</sub>	$\cong$ 400 ppm	74 ppm
Formic acid	$\cong$ 0.5%	0.2%
Hydrazine	$\cong$ 1ppm	Complies
Free-N-Vinylpyrrolidone	$\cong$ 10 ppm	Not Detected
Lead	$\cong$ 2 ppm	Complies
Water	$\cong$ 5.0%	3.1%
Total ash	$\cong$ 0.1%	0.04%
Assay, as Nitrogen content	11.5 - 12.8%	12.2%
Microbiological status	Max.100 aerobic bacteria and fungi/g Max.10 Enterobacteria/g No Escherichia Coli/g No Pseudomonas aeruginosa/g No staphylococcus aureus/g	Complies
Conclusion: It conforms to specification of Food Grade		

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Director, Q/A Department