



# CERTIFICATE OF ANALYSIS

Date: APR. 07, 2023

PRODUCT: POLYVINYLPIRROLIDONE K30 (USP43)

LOT NUMBER: YK001S230403A1P

AMOUNT: 3,000 KGS

SENT FROM: MFR DEP

## RESULTS OF INSPECTION:

TEST ITEMS	SPECIFICATIONS	TEST VALUE	
Appearance	White or yellowish-white, hygroscopic powder or flakes	Complies	
Solubility	Freely soluble in water, in ethanol (96%) and in methanol, very slightly soluble in acetone	Complies	
First Identification	A, E.	Complies	
Second Identification	B, C, D, E	Complies	
Appearance of solution	Clear and not more intensely colored than reference B <sub>6</sub> , BY <sub>6</sub> or R <sub>6</sub>	Complies	
pH value	3.0 - 5.0	3.7	
K-Value	27.00 - 33.24	30.1	
Aldehydes ppm	≤ 500	108.0	
Peroxide (as H <sub>2</sub> O <sub>2</sub> ) ppm	≤ 400	97.0	
Formic Acid %	≤ 0.5	0.2	
Hydrazine ppm	≤ 1	0.1	
Impurity A(1-vinylpyrrolidin-2-one)	≤ 10 ppm	4.2 ppm	
Impurity B(2-pyrrolidone) %	≤ 3.0	1.0	
Heavy metals (Lead) ppm	≤ 10	Complies	
Water %	≤ 5.0	2.9	
Sulfated Ash %	≤ 0.1	0.03	
Nitrogen %	11.5 - 12.8	12.3	
Total aerobic plate counts CFU/g	≤ 100	< 10	
Total yeast and mold CFU/g	≤ 100	< 10	
E. Coli	Negative	Negative	
Salmonella spp	Negative	Negative	
Pseudomona aeruginosa	Negative	Negative	
Staphylococcus aureus	Negative	Negative	
MFG. Date	APR. 03, 2023	EXP. Date	APR. 02, 2026

### OPINION OF THE ANALYST:

REPRESENTATIVE SAMPLES WAS INSPECTED AND FOUND IN CONFORMITY WITH THE REQUIREMENT OF SPECIFICATION

PASS

P. S. 1. If have any doubt about the result, please inform us for retest in a month. The sample for retest shall be the original one.

2. This report should not be used for advertisement and propaganda.

Analyst 朱广东

Corrector 熊俊超

Approver 陈占

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