

CERTIFICATE OF ANALYSIS

1. Basic Information

Chemical Name: Sodium Methyl Paraben

CAS Number: 5026-62-0

Molecular Weight: 176.15

Molecular Formula: C₈H₉NaO₃

Batch Number: 2024102001

Manufacturing Date: 20241020

Quantity: 100KGS

Retest Date: 20251019

2. Physical Characteristics

Items	Standard	Result
Appearance	White or almost white crystalline powder	White
Identification	1.When 10 mg of the sample is mixed with sodium carbonate solution, a borate buffer solution of 4-aminoantipyrine, and potassium ferricyanide solution, the resulting solution turns red.	Passed
	2.The retention time of the main peak in the chromatogram of the test solution should correspond to that of the reference standard solution under the assay conditions.	
	3.Shows the identification reaction of sodium salts.	
PH	9.5-10.5	10.02
Solution	Solution Clarity The solution should be clear.	Passed
	Solution Color If colored, it should not be darker than Reference Standard Color Solution No. 3 (brown-red).	
Chloride(Cl-) %	≤0.035	<0.035
Sulfate(SO ₄ ²⁻) %	≤0.024	<0.024
Related Substances	P-Hydroxybenzoic acid: ≤3%	1.21

	Unspecified impurities: $\leq 0.5\%$	0.01
	Total impurities: $\leq 1.0\%$	0.01
Water%	$\leq 5.0\%$	2.20
Heavy Metal (Pb)	≤ 0.001	< 0.001
Heavy Metal (As)	≤ 0.0002	< 0.0001
Purity %	98.0-102.0	99.11
Conclusion	Passed	

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