

**CERTIFICATE OF ANALYSIS**

Product Name	Cytidine 5'-Diphosphocholine	Specification	Company Standard
CAS No.	987-78-0	Manufacture Date	2024.9.19
Quantity	300KG	Analysis Date	2024.9.25
Batch No.	BF-240919	Expiry Date	2026.9.18

Items	Specifications	Results
Assay (on dry basis, HPLC)	$\geq 98.0\%$	99.84%
Appearance	White Crystalline Powder	Complies
Odor	Characteristic	Complies
Identification	The solution should be positively reacting The retention time of the principal peak in the chromatogram obtained with the test solution is identical with that of the principal peak in the chromatogram obtained with the reference solution	Complies
	The infrared absorption spectrum is concordant with the standard spectrum	Complies
pH	2.5 - 3.5	3.2
Loss on Drying	$\leq 6.0\%$	3.0%
Clarity, Color of Solution	Clear, Colorless	Complies
Chloride	$\leq 0.05\%$	Complies
Ammonium Salt	$\leq 0.05\%$	Complies
Iron Salt	$\leq 0.01\%$	Complies
Phosphate	$\leq 0.1\%$	Complies
Related Substances	5'-CMP $\leq 0.3\%$	0.009%
	Single Impurity $\leq 0.2\%$	0.008%
	Total Another Impurity $\leq 0.7\%$	0.03%

Residual Solvents	Methanol $\leq 0.3\%$	Absence
	Ethanol $\leq 0.5\%$	Absence
	Acetone $\leq 0.5\%$	Absence
Arsenic Salt	$\leq 0.0001\%$	Complies
Total Heavy Metals	$\leq 5.0$ ppm	Complies
<b>Microbiological Test</b>		
Total Plate Count	$\leq 1000$ CFU/g	Complies
Yeast & Mold	$\leq 100$ CFU/g	Complies
E.Coli	Negative	Complies
Salmonella	Negative	Complies
Package	Packed in plastic bag inside and aluminum foil bag outside.	
Storage	Store in a cool and dry place, keep away from strong light and heat.	
Shelf Life	Two years when properly stored.	
Conclusion	Sample Qualified.	



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