

**MOBEL BIOMATERIALS TECHNOLOGY CO.,LIMITED**

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CERTIFICATE OF ANALYSIS

Production name	Citicoline sodium	CAS No.	33818-15-4
Batch No.	CDPS251008	Formula	C ₁₄ H ₂₅ N ₄ NaO ₁₁ P ₂
MFG. Date	2025.10.08	Quantity	300kg
Expiry Date	2027.10.07	Report Date	2025.10.13
Storage conditions	Shading, sealed storage		
Inspection Standard	Enterprise Standard		
Test Items	Specifications	Results	Analytical method reference
Description	A white crystalline or crystalline powder, odorless; Freely soluble in water and insoluble in ethanol and acetone	Complies	ChP 2020
Identification	1. A green colour is produced	Complies	ChP 2020
	2.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	
	3.The infrared absorption spectrum is concordant with the standard spectrum.	Complies	
	4.The aqueous solution yields the reaction (1) characteristic of sodium salts	Complies	
pH	6.0 – 7.5	7.07	ChP 2020
Clarity, color of solution	Clear, colorless	Complies	ChP 2020
Chloride	≤ 0.05%	Complies	ChP 2020
Ammonium salt	≤ 0.05%	Complies	ChP 2020
Iron salt	≤ 0.01%	Complies	ChP 2020
Phosphate	≤ 0.1%	Complies	ChP 2020
Related substances	5'-CMP ≤ 0.3%	Complies	ChP 2020
	Single impurity ≤ 0.2%	Complies	ChP 2020
	Total Another Impurity ≤ 0.7%	Complies	ChP 2020
Residual solvents	Limit of methanol ≤ 0.3%	Complies	ChP 2020
	Limit of ethanol ≤ 0.5%	Complies	ChP 2020
	Limit of acetone ≤ 0.5%	Complies	ChP 2020
Loss on drying	≤ 6.0%	3.854%	ChP 2020
Heavy Metals	≤ 5ppm	Complies	ChP 2020
Arsenic salt	≤ 0.0001%	Complies	ChP 2020
Total plate count	≤ 1000 CFU/g	Complies	ChP 2020
Yeast and mold count	≤ 100 CFU/g	Complies	ChP 2020
E. Coli	Negative	Complies	ChP 2020
Assay(HPLC)	98.0% to 102.0%	Complies	ChP 2020
Conclusion: Complies with Enterprise Standard		Complies	ChP 2020

Analyst:Yuwei

Auditor: Hebin

