

CERTIFICATE OF ANALYSIS

Product Name:	Citicoline sodium		
Batch No.	CJ20220101	Cas No.	33818-15-4
Manufacturing Date	January 1, 2022	Expiry Date TO	December 31, 2024
Quantity	500kg	Quality Standard	CP2020
	Analytical	results	•
ltems	Specifications		Results
Description	A white crystalline or crystalline powder, odorless; Freely soluble in water and insoluble in ethanol and acetone		Complies
	(1) A green colour is produced		Complies
Identification	 (2) The retention time of the primcipal 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 (3) The infrared absorption spectrum is concordant with the standard spectrum. (4) The aqueous solution yields the reaction (1) characteristic of sodium salts 		Complies
рН	6.0 - 7.5		6.7
Clarity, color of solution	Clear, colorless		Complies
Chloride	≤0.05%		Complies
Ammonium salt	≤0.05%		Complies
Iron salt	≤0.01%		Complies
Phosphate	≤0.1%		Complies
Related substances	5′ -CMP ≤0.3%		0.002%
	Single impurity ≤0.2%		0.02%
	Total Another Impurity ≤0.7%		0.03%
Residual solvents	Limit of methanol ≤0.3%		Undetected
	Limit of ethanol ≤0.5%		Undetected
	Limit of acetone ≤0.5%		Undetected
Loss on drying	≤6.0%		1.10%
Heavy Metals	≤5ppm		Complies
Arsenic salt	≤0.0001%		Complies
Endotoxin	<0.3 EU/mg		Complies
	Total bacterial count≤100 Cl	-U/a	<10
Limit of microbe	Yeast & Mold≤50 CFU/g	-	<10
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	E. Coli: Negative	<u>一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一</u>	
Assay	≥98.0% Meet the Specifications	CH 1€ 质检专用章	99.80%
Conclusion			1 1 1