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CERTIFICATE OF ANALYSIS

Product Name	CITICOLINE SODIUM	Batch Number	SC 20200115
Cas No.	33818-15-4	Manufacture Date	Jan.15,2020
Quantity	500kg	Expiry Date	Jan.14,2022

Testing items	Specifications	Results
Description	A white or almost white crystalline powder, odorless	Conforms
Identification	1) Chemical reaction 2) The retention time complies to the standard 3) Infrared absorption spectrum complies to the standard 4) Show sodium flame	Positive reaction Conforms Conforms Conforms
PH	6.0-7.5	6.9
Clarity,color	Clear,colorless	Conforms
Related substances	5'-CMP \leq 0.30% Single impurity \leq 0.20% Total impurity \leq 0.70%	0.013% 0.0045% 0.0088%
Residual solvents	Limit of methanol \leq 0.30% Limit of ethanol \leq 0.50% Limit of acetone \leq 0.20%	Undetected Undetected Undetected
Limit of chloride	\leq 0.05%	Conforms
Limit of ammonium salt	\leq 0.05%	Conforms
Limit of iron salt	\leq 0.01%	Conforms
Limit of phosphate	\leq 0.1%	Conforms
Limit of arsenic salt	\leq 0.0001%	Conforms
Loss on drying	\leq 6.0%	0.3%
Heavy metals	\leq 5ppm	Conforms
Endotoxin	\leq 0.30EU/mg	Conforms
Limit of microbe	Total bacterial count \leq 1000CFU/g Yeast&Mold \leq 100 CFU/g E.Coli:Negative	12CFU/g <12 CFU/g Negative
Assay(HPLC)	\geq 98.00%	99.37%
Conclusion	Comply with the CP2010 standard	

