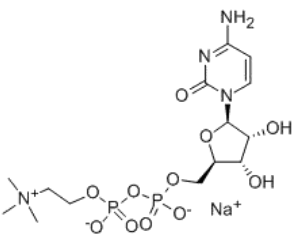




## CERTIFICATE OF ANALYSIS

Product Name	Citicoline Sodium		
Molecular Formula	C <sub>14</sub> H <sub>25</sub> N <sub>4</sub> NaO <sub>11</sub> P <sub>2</sub>		
Cas No.	33818-15-4	Quantity	400kg
MFG. Date	2022.12.02	Batch No:	MLP-CDN-20221202
Report Date	2022.12.07	Retest Date	2024.12.01

Testing Items	Specifications	Results
Appearance	White to off-white powder	Conforms
Identification	1) <sup>1</sup> HNMR conforms to structure 2) Retention time complies to the standard 3) Infrared absorption spectrum complies to the standard	Conforms
Limit of chloride	≤ 0.015%	Conforms
Limit of sulfate	≤ 0.020%	Conforms
Related substances	5'-Cytidylic acid ≤ 0.20%	0.1103%
	Cytidine- 5'-monophosphate methyl ester ≤ 0.15%	Not detected
	Any unspecified impurity ≤ 0.10%	0.0002%
	Total impurities ≤ 0.70%	0.1105%
Water	≤ 6.0%	Conforms
Assay (HPLC)	98.0%~102.0% (on the anhydrous basis)	99.89%
Conclusion	Conforms to USP44 Standards.	
Storage	Store in cool and dry place.	

ANALYST:

检 1

CHECKER:

检 2

Q.C. DIRECTOR:



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