

Certificate of Analysis

Product Name	Citicoline (CDP Choline)	Batch Number	20250313A
Quantity	550kg	Manufacture Date	Mar. 13, 2025
Expiry Date	Mar. 12, 2027	Analysis Date	Mar. 13, 2025

Item	Specification	Results
Description	White crystalline powder	White crystalline powder
Solubility	Freely soluble in water	Freely soluble in water
Identification by IR	The infrared absorption spectrum of sample matches with spectrum obtained from standard.	Complies
Identification by HPLC	The retention time of major peak in the chromatogram of the sample preparation should correspond to that in the chromatogram of the standard preparation obtained in the test for assay	Complies
pH	6.5-7.5	6.52
Water content by KF	Not more than 5.0%	2.13%
Heavy metals	Less than 10 ppm	Less than 10 ppm
Chloride	Not more than 1,000 ppm	60 ppm
Cytidine	Not more than 0.50%	BDL
Uridine	Not more than 0.50%	BDL
Cytidine - 5 - mono phosphate Disodicum	Not more than 1.0%	0.01%
Assay	≥99%	99.33%