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Certificate of Analysis

Catalogue Number	37755
Product	Cytidine 5'-diphosphocholine sodium salt
Lot Number	003117-20220316
	Citicoline sodium salt
CAS Number	33818-15-4
Molecular Formula	C ₁₄ H ₂₅ N ₄ NaO ₁₁ P ₂
Molecular Weight	510.31

Appearance	White crystalline or crystalline powder
Clarity & Color	Clear colorless solution
Solubility	Freely soluble in water and insoluble in ethanol and acetone.
Odor	Odorless
Heavy Metals	< 5 ppm
Anion	Chloride : < 0.05% Phosphate : < 0.1%
Cation	Iron salt : < 0.01% Ammonium salt : < 0.05% Arsenic salt : < 0.0001%
pH	6.7
Yeast and Mold	< 10 CFU/g
Infrared Spectrum	Conforms to structure
Loss on Drying	1.4%
Residual Solvents	Limit of methanol : Not detected Limit of ethanol : Not detected Limit of acetone : Not detected
E. Coli	Negative
Endotoxin Test	< 0.30 EU/mg
Microbial Count	15 CFU/g (TBC)
Related Substances	5'-CMP : 0.009% Single impurity : 0.01% Total another impurity : 0.03%
Purity by HPLC	99.95%
Storage	Store at < 0 °C

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager