

SINOWAY INDUSTRIAL CO.,LTD.

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Certificate of Analysis

General Information			
Product Name	Citicoline (CDP Choline)	QTY	2000kg
CAS No.	987-78-0	Batch #	C2023021201
Production date	2023-02- 12	Expire date	2025-02- 11
Issue Date	2023-02- 12		
Analysis			
Item	Specification	Result	
Appearance	Off white to White Crystalline Powder	Complies	
Identification	Chemical reaction	Positive reaction	
	The retention time of a major peak meets the requirements	Complies	
	IR:consistent with the spectrum obtained with reference substance	Complies	
Loss on drying	≤5.0%	2.6%	
pH	2.5~3.5	3.0	
5'-CMP	≤0.05%	Complies	
Free phosphoric acids	≤0.1	Complies	
Assay(By HPLC)	98%~102%	100%	
Purity(HPLC)	≥99.0%	99.9%	
Heavy Metals			
Total	≤10ppm	Complies	
Lead(Pb)	≤3.0ppm	Complies	
Arsenic(As)	≤2.0ppm	Complies	
Cadmium(Cd)	≤1.0ppm	Complies	
Mercury(Hg)	≤0.1ppm	Complies	
Microbiological			
Total Plate Count	≤1,000cfu/g	Complies	
Fungi count	≤100cfu/g	Complies	
Yeast & Mold	≤100cfu/g	Complies	
E.Coli.	Negative	ND	
Salmonella	Negative	ND	
Package& Storage	Standard packed in fiber-drum outside and Food grade plastic bags inside. N.W: 25kgs, Size: 35x35xH51 cm;		
	Store in a cool,dry place away from Moisture, Light, Oxygen		
Manufacturer	Shaanxi Lifewe Bioengineering Co., Ltd.		

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