



Zhengzhou Yuanli Biological Technology Co., Ltd.

郑州原理生物科技有限公司

Address: No. 52 Huangyang Street, Zhengzhou, 450000, Henan, China.

Phone: +86-371-63507389

Fax: +86-371-63507390

Certificate of Analysis

质量检验单

Product Name: Citicoline Sodium		Batch No. : 20200510
CAS No. : 33818-15-4		Quantity : 500kg
Manufacturing Date: 05/10/2020		Expired Date: 05/09/2022
Sampling Date: 05/11/2020		Report Date : 05/11/2020
Test Items	Requirements	Results
Description	A white or almost white crystalline powder, odorless	Complies
Identification	1) show positive reaction 2) retention time complies to the standard 3) infrared absorption spectrum complies to the standard 4) aqueous solution show flame reaction of sodium	Show positive reaction Complies Complies Show positive reaction
pH	Between 6.0 and 7.5	6.8
Clarity, color	Clear, colorless	Complies
Related substances	Complies to the standard	Complies
Limit of ethanol	$\leq 0.3\%$	0.003%
Limit of toluene	$\leq 0.089\%$	Undetected
Limit of chloride	$\leq 0.05\%$	Complies
Limit of ammonium salt	$\leq 0.05\%$	Complies
Limit of arsenic salt	$\leq 0.0001\%$	Complies
Loss on drying	$\leq 6.00\%$	2.9%
Heavy Metals	$\leq 20\text{ppm}$	Complies
Endotoxin	$< 0.6 \text{ eu/mg}$	Complies
Assay (UV)	$\geq 98.0\%$	99.8%
Limit of microbe	Bacteria: $\leq 800/\text{g}$	40/g
	Mycete & yeast: $\leq 80/\text{g}$	20/g
	ESIEC: should undetected	Undetected
Conclusion	The product complies with CP2010.	
Checker: Yunxiang Han	Rechecker: Jin Jin	Supervisor: Xuezhe Han

检验专用章