



HANGZHOU FORTUNE BIOPHARM CO.,LTD.

杭州泛青生物医药有限公司

Certificate of Analysis

Product: Cytidine Disodium Triphosphate (CTP)		
Batch No.: 180101	Quantity: 20kgs	
Date of Manufacture: Feb.01,2018	Date of Expire:Jan.31,2019	
Analysis according: Company standard.		
Items	Requirements	Results
Description	White powder or off-white powder , odorless,no taste,hygroscopy	Conforms
Identification	(1) $A_{250}/A_{260}=0.40\sim 0.55$ $A_{280}/A_{260}=2.00\sim 2.20$ $\lambda_{max}=280\pm 2nm$ (2)Conforms	(1) 0.44 2.14 280nm (2) Conforms
Clarity&color of solution	Clarifying ,colorless	Conforms
pH	3.0~5.0	3.3
Protein	Should not be turbid	Conforms
Loss on drying	$\leq 7.0\%$	2.9%
Heavy metals	$\leq 20ppm$	Conforms
Relative substance	$\leq 10.0\%$	1.0%
Purity(HPLC)	$\geq 95.0\%$	98.0%
Endotoxin	$< 1.25EU/mg$	Conforms
Assay(on dry basis)	$\geq 87.0\%$	95.0%
Conclusion: Conforms to above standard.		
Storage: Store in $-20^{\circ}C$. Keep away from strong light and heat.		
Shelf life: 1 year when properly stored.		

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