

## **Certificate of Analysis**

Product Name:	dCTP (100 mM)					
Cat No.:	RK20113	Lot No.:	2021012201	Exp:	2022.01	
Conc.:	100 mM			Storage:	-20°C	

Assay Name/Specification (Minimum release criteria)	Data	Result
Physical Purity (HPLC)		Pass
Deoxynucleotide (dNTP) Solution Mix is $\geq$ 99% pure as determined by HPLC analysis.		
PCR Amplification (1 kb Lambda DNA)		Pass
A 50 $\mu l$ reaction in 1X PCR Reaction Buffer, Mg2+ plus in the presence of 200 $\mu M$ Deoxynucleotide		
(dNTP) Solution Mix and 0.5 $\mu M$ primers containing 1 ng Lambda DNA with 1.25 units of Taq DNA		
Polymerase for 25 cycles of PCR amplification results in the expected 1 kb product		
Non-Specific DNase Activity	No	Pass
Specification: A 20 $\mu I$ reaction in 1X DNaseI Buffer containing 1 $\mu g$ of pUC19 DNA with Nuclease-free H2O	Degradation	
incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as		
determined by agarose gel electrophoresis.		
Endonuclease Activity (Nicking) - A 20 µl reaction in ABuffer S containing 1 µg of supercoiled PhiX174		Pass
DNA with Nuclease-free H2O incubated for 4 hours at 37°C results in <10% conversion to the nicked form		
as determined by agarose gel electrophoresis.		
Exonuclease Activity	No	Pass
A 20 $\mu I$ reaction in ABuffer S containing 2.5 $\mu M$ of single or double-stranded fluorescent-labeled DNA with	Degradation	
Nuclease-free H2O incubated for 16 hours at 37°C. No detectable nuclease degradation as determined by		
polyacrylamide gel electrophoresis.		
RNase Activity	No	Pass
A 20 $\mu$ I reaction in ABuffer S containing 500 ng total RNA with Nuclease-free H2O is incubated at 37°C.	Degradation	
After incubation for 4 hours, the substrate RNA remains intact as determined by gel electrophoresis.		

## **Conclusion**:

In compliance.



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Date: 2021-01-26

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