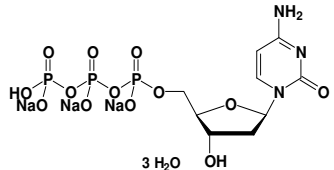


**DATA SHEET**
**dCTP, PCR Grade**
**2'- Deoxycytidine 5'-triphosphate, lyophilisate**

Cat.-No.	Amount
NU-1002-10	10 mg

Description	dCTP, PCR Grade is suitable for all molecular biology applications including PCR/qPCR, reverse transcription, DNA labeling and DNA sequencing.
CAS Number	102783-51-7
Formula (Anion)	$C_9H_{13}N_3Na_3O_{13}P_3 \times 3H_2O$
Molecular Weight	$587.14 \text{ g}\cdot\text{mol}^{-1}$
Storage	Store at $-20^\circ\text{C}$ , short term (up to one week) exposure to ambient temperature possible
Stability	Quality guaranteed for 12 months
Structure	

**Biophysical Specifications**

Appearance	white powder
Extinction coefficient (22°C, pH 7.0)	$\epsilon = 8.9 \text{ l}\cdot\text{mmol}^{-1}\cdot\text{cm}^{-1}$ ( $A_{271 \text{ nm}}$ )
Purity (HPLC area)	$\geq 95.0\%$

**Functional Specifications**

Low Copy Long Range PCR (18 kb, lambda DNA, template dilution series)	PCR fragment with 100 pg of template or less
RT-PCR (983 bp fragment, human G3PDH gene)	PCR fragment with 100 pg of template or less
Contamination with bacterial or human DNA	not detectable
DNases, RNases, Nicking Activity	not detectable
Proteases	not detectable