

Data sheet

dCTP

(2'-deoxycytidine 5'-triphosphate)

Cat. No N0094

40 μmol (0.4 mL of 100 mM solution)

Description

Ultrapure dCTP supplied as clear aqueous solution (pH 8.5).

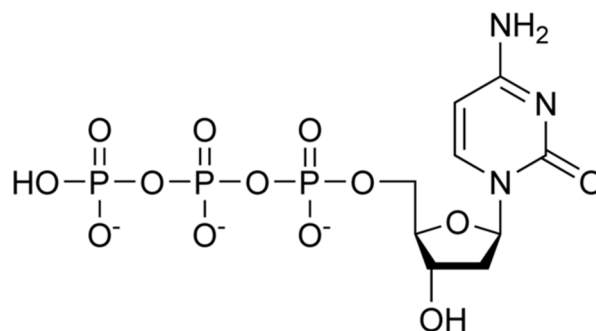
Formula: $\text{C}_9\text{H}_{16}\text{N}_3\text{O}_{13}\text{P}_3$

Molecular Weight: 467.15 g/mol

λ_{max} pH 7.0= 271 nm

ϵ at λ_{max} , pH 7.0= 8.9 $\text{mmol}^{-1}\text{cm}^{-1}$

Purity: > 99% confirmed by HPLC



Applications

For use in all molecular biology applications, including PCR, real-time PCR, high fidelity and long PCR, cDNA synthesis, RT-PCR, and DNA sequencing.

The synthesis of a complementary DNA/cDNA strand by enzymatic polymerization of deoxynucleotide triphosphates (dNTPs) is the basic principle of DNA amplification, sequencing and cDNA synthesis techniques.

Concentration: 100 mM

Quality Control Specifications:

18 kb long range PCR (template dilution series): suitable; contamination with bacterial and human DNA: not detectable; activity of DNase, Protease or Phosphatase: not detectable

Storage: Store at -20°C , short term (up to one week) exposure to ambient temperature is possible.

PRODUCT USE LIMITATION

This product is developed, designed and sold exclusively for research purposes and in vitro use only. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals. Please refer to www.canvaxbiotech.com for Material Safety Data Sheet of the product.

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Notes

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