

5-methyl-dCTP



1-800-632-7799
info@neb.com
www.neb.com



N0356S 002101013101

N0356S

1 μ mol in 0.1 ml Lot: 0021010
10 mM Store at -20°C Exp: 10/13

Description: 5-methyl-dCTP (2'-deoxy-5-methylcytidine 5'-triphosphate) is supplied as a 10 mM solution at pH 7. Nucleotide concentration is determined by measurements of absorbance at 260 nm.

Supplied in: Milli-Q™ water as an ammonium salt at (pH 7.0).

Formula: $\text{C}_{10}\text{H}_{15}\text{N}_3\text{O}_{13}\text{P}_3$ (free acid)

Concentration: 10 mM solution.

Molecular weight: 481.1 (acid form)

Diluent Compatibility: Can be diluted using sterile distilled water, preferably Milli-Q water, or can be diluted using sterile TE [10 mM Tris-HCl, 1 mM EDTA (pH 7.5)].

Quality Assurance: 5-methyl-dCTP is certified free of nucleases and phosphatases.

Quality Control Assay

Methylase Protection Assay: Vent DNA polymerase was used to generate a 500 bp DNA amplicon in two PCR reactions with dATP, dGTP, dTTP and either dCTP or 5-methyl-dCTP. The 500 bp fragments from each reaction were digested with 5mC methyl sensitive enzymes HpaII and MspI and electrophoresed on an agarose gel. The 5-methyl-dCTP product failed to be cut by these enzymes, whereas the dCTP product was digested by both enzymes.

Companion Product:

Deoxynucleotide (dNTP) Solution Set
#N0446S 25 μ mol of each

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CERTIFICATE OF ANALYSIS

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