

5-methyl-dCTP



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



N0356S 003160719071

N0356S

1 µmol in 0.1 ml Lot: **0031607**
10 mM Store at **-20°C** Exp: **7/19**

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: C₁₀H₁₅N₃O₁₃P₃ (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 µmol of each



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MILLI-Q® is a registered trademark of Millipore Corporation.

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

CERTIFICATE OF ANALYSIS

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