dm5CTP

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

N0356S 002101013101

N0356S

1 µmol in 0.1 ml **Lot: 0021010** **Exp: 10/15**

10 mM **Store at –20°C**

Description: dm5CTP (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: $C_{10}H_{15}N_3O_{13}P_3$ (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: dm5CTP 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 dm5CTP. The 500 bp fragments from each reaction were digested with 5mC methyl sensitive enzymes HpaII and MspI and electrophoresed on an agarose gel. The dm5CTP product failed to be cut by these enzymes, whereas the dCTP product was digested by both enzymes.

Companion Product:

Deoxynucleotide Solution Set
#N0446S 25 µmol of each

Milli-Q™ is a trademark of Millipore Corporation.

CERTIFICATE OF ANALYSIS

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