

New England Biolabs Product Specification

Product Name: 5-methyl-dCTP
Catalog #: N0356S
Concentration: 10 mM
Shelf Life: 36 months
Storage Temp: -20°C
Storage Conditions: Supplied in Milli-Q® water as a triethylammonium salt
Specification Version: PS-N0356S v3.0
Effective Date: 25 Jan 2023

Assay Name/Specification (minimum release criteria)

Functional Testing (Methylase Protection) - A 500 bp DNA amplicon was generated in two PCR reactions using Vent DNA Polymerase, dATP, dGTP, dTTP, and either dCTP or 5-methyl-dCTP. The 500 bp fragments from each reaction were digested with 5mC methyl sensitive enzymes AluI and HinPII and then 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.

Physical Purity (HPLC) - 5-methyl-dCTP is ≥ 95% pure as determined by HPLC analysis.

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Date 25 Jan 2023

Nancy Considine
Quality Approver

