

New England Biolabs Certificate of Analysis

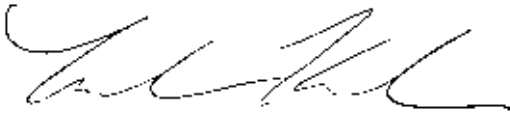
Product Name: 5-methyl-dCTP
Catalog Number: N0356S
Concentration: 10 mM
Packaging Lot Number: 10225546
Expiration Date: 12/2026
Storage Temperature: -20°C
Storage Conditions: Supplied in Milli-Q® water as a triethylammonium salt
Specification Version: PS-N0356S v3.0

5-methyl-dCTP Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0356SVIAL	5-methyl-dCTP	10219199	Pass

Assay Name/Specification	Lot # 10225546
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 HinP1I 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.	Pass
Physical Purity (HPLC) 5-methyl-dCTP is ≥ 95% pure as determined by HPLC analysis.	Pass

This product has been tested and shown to be in compliance with all specifications.

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Michael Kuska
Production Scientist
22 Dec 2023



Michael Tonello
Packaging Quality Control Inspector
22 Dec 2023