

## New England Biolabs Certificate of Analysis

**Product Name:** 5-methyl-dCTP  
**Catalog Number:** N0356S  
**Concentration:** 10 mM  
**Lot Number:** 10031184  
**Expiration Date:** 11/2021  
**Storage Temperature:** -20°C  
**Storage Conditions:** Supplied in Milli-Q® water as an ammonium salt, pH 7.0  
**Specification Version:** PS-N0356S v1.0

5-methyl-dCTP Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0356SVIAL	5-methyl-dCTP	10028970	Pass

Assay Name/Specification	Lot # 10031184
<b>Functional Testing (Methylase Protection)</b> 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 HpaII and MspI 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
<b>Protein Purity Assay (HPLC)</b> 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.



Nancy Considine  
Production Scientist  
14 Dec 2018



Josh Hersey  
Packaging Quality Control Inspector  
14 Dec 2018