

## 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 v2.0  
*Effective Date:* 02 Jul 2021

### 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 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.

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

One or more products referenced in this document may be covered by a 3rd-party trademark.  
Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



Date 02 Jul 2021

Derek Robinson  
Director, Quality Control

