

# dCTP [100mM]

Cat. No. D1020

Storage: -20 °C



ZYMO RESEARCH

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## Product Information

### Highlights:

- Ultra high purity dCTP; >99% trisphosphate by HPLC
- Readily incorporated into PCR amplicons with *ZymoTaq*™ or other DNA polymerases.
- Free of endo-, exodeoxyribonuclease, ribonuclease, phosphatase and nicking activities

### Description:

dCTP from Zymo Research is of ultra high purity and can be used to generate DNA by PCR using *ZymoTaq*™ or other DNA polymerases.

**Concentration:** 25 µmol/250 µl as a [100 mM] solution.

**Storage Condition:** dCTP is guaranteed for 12 months at -20°C. Avoid multiple freeze/thaw cycles. For long-term storage, aliquoting is recommended with storage at -80°C.

### Proposed Reaction Setup using *ZymoTaq*™ (Cat. Nos. E2001 & E2002):

Reagent	Volume	Final conc.
2X Reaction Buffer	25 µl	1X
dNTP Mix (100 mM)	0.5 µl	0.25 mM each dNTP
Forward Primer (10 µM)	Variable	0.3 to 1 µM
Reverse Primer (10 µM)	Variable	0.3 to 1 µM
Template DNA	Variable	< 200 ng/50 µl
<i>ZymoTaq</i> ™ DNA Polymerase (5 U/µl)	0.4 µl	2 U/50 µl
ddH <sub>2</sub> O	to 50 µl	–
Total volume	50 µl	

**Note:** The final concentration of MgCl<sub>2</sub> in the reaction (above) is 1.75 mM. If required, scale reaction reagent volumes accordingly to optimize the MgCl<sub>2</sub>, primer, and/or template concentrations.

### Also Available:

Product Name	Size	Catalog number
<i>ZymoTaq</i> ™ DNA Polymerase	50 200	E2001 E2002
<i>ZymoTaq</i> ™ PreMix (2X concentrated)	50 200	E2003 E2004
5-Methylcytosine dNTP Mix	2.5 µmol	D1030
5-Methyl dCTP	1 µmol	D1035
5-Hydroxymethylcytosine dNTP Mix	2.5 µmol	D1040
5-Hydroxymethyl dCTP	10 µmol	D1045
DNA Clean & Concentrator™- 5	50 200	D4003 D4004
Genomic DNA Clean & Concentrator™	25 100	D4010 D4011
Zyppy™ Plasmid Miniprep Kit	50 100 400 800	D4036 D4019 D4020 D4037
ZR BAC DNA Miniprep Kit	25 100	D4048 D4049
Zymoclean™ Gel DNA Recovery Kit	50 200	D4001 D4002

Zymoclean™ Large Fragment DNA Recovery Kit	25 100	D4045 D4046
OneStep™ PCR Inhibitor Removal Kit	50	D6030
ZR DNA Sequencing Clean-up Kit™	50 200	D4050 D4051
Quick-gDNA™ MiniPrep	50 200	D3006 D3007
ZR Fungal/Bacterial DNA MiniPrep™	50	D6005
ZR Soil Microbe DNA MiniPrep™	50	D6001
ZR Fecal DNA MiniPrep™	50	D6010
ZR Plant/Seed DNA MiniPrep™	50	D6020
ZR Tissue & Insect DNA MiniPrep™	50	D6016
ZR Serum DNA Kit™	50	D3013
ZR Urine DNA Isolation Kit™	20	D3060
ZR Viral DNA Kit™	50 200	D3015 D3016
ssDNA/RNA Clean & Concentrator™	20 50	D7010 D7011
dsDNA Shearase™	50 units 200 units	E2018-50 E2018-200

### Trademarks and Disclaimers:

™ Trademarks of Zymo Research Corporation.

This product is for research use only and should only be used by trained professionals. Wear protective gloves and eye protection. Follow the safety guidelines and rules enacted by your research institution or facility.

The Polymerase Chain Reaction (PCR) process is covered by U.S. Patent: #4,683,195; 4,683,202 assigned to Hoffmann-La Roche. Patent pending in other countries. No license under these patents to use the PCR process is conveyed expressly or by implication to the purchaser by the purchase of Zymo Research's products. Further information on purchasing licenses to practice the PCR process can be obtained from the director of Licensing at Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404 or at Roche Molecular Systems, Inc., 1145 Atlantic Avenue, Alameda, California 94501.

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