

# invitrogen

by *life* technologies™

## 10 mM dNTP Mix, PCR Grade

Cat. nos.

18427-013

18427-088

Size

100  $\mu$ L

1 mL

Store at  $-30^{\circ}\text{C}$  to  $-10^{\circ}\text{C}$

Pub. Part no. 18427.pps

MAN0001398

Rev. Date 7 Sep 2011

### Description

10 mM dNTP (2'-deoxynucleoside 5'-triphosphate) Mix consists of all four nucleotides (dATP, dCTP, dGTP, dTTP), each at a concentration of 10 mM, in a solution of 0.6 mM Tris-HCl (pH 7.5). The 10 mM dNTP Mix is suitable for use in polymerase chain reaction (PCR), sequencing, fill-in, nick translation, cDNA synthesis, and TdT-tailing reactions.

### Volumes and Concentrations

#### 20 $\mu$ L Final Reaction Volume

Final dNTP Conc.	dNTP Volume	Rxns per Kit	
		100 $\mu$ L Kit	1 mL Kit
0.2 mM	0.4 $\mu$ L	250	2,500
0.5 mM	1 $\mu$ L	100	1,000
1.0 mM	2 $\mu$ L	50	500
1.5 mM	3 $\mu$ L	33	333

#### 25 $\mu$ L Final Reaction Volume

Final dNTP Conc.	dNTP Volume	Rxns per Kit	
		100 $\mu$ L Kit	1 mL Kit
0.2 mM	0.5 $\mu$ L	200	2,000
0.5 mM	1.25 $\mu$ L	80	800
1.0 mM	2.5 $\mu$ L	40	400
1.5 mM	3.75 $\mu$ L	26	266

**Intended Use:** For research use only.

Not intended for any animal or human therapeutic or diagnostic use.

## 50 $\mu$ L Final Reaction Volume

Final dNTP Conc.	dNTP Volume	Rxns per Kit	
		100 $\mu$ L Kit	1 mL Kit
0.2 mM	1 $\mu$ L	100	1,000
0.5 mM	2.5 $\mu$ L	40	400
1.0 mM	5 $\mu$ L	20	200
1.5 mM	7.5 $\mu$ L	13	133

## 100 $\mu$ L Final Reaction Volume

Final dNTP Conc.	dNTP Volume	Rxns per Kit	
		100 $\mu$ L Kit	1 mL Kit
0.2 mM	2 $\mu$ L	50	500
0.5 mM	5 $\mu$ L	20	200
1.0 mM	10 $\mu$ L	10	100
1.5 mM	15 $\mu$ L	6	66

## Additional Products

Product	Volume	Catalog no.
2.5 mM dNTP Mix	1 mL	R725-01
100 mM dNTP Set	4 $\times$ 250 $\mu$ L	10297-018
100 mM dNTP Set	4 $\times$ 2.5 mL	10297-117

## Reference

Saiki, R.K., Gelfand, D.H., Stoffel, S., Scharf, S.J., Higuchi, R., Horn, G.T., Mullis, K.B., and Erlich, H.A. (1988) *Science* 239, 487.

## Certificate of Analysis

The Certificate of Analysis (CofA) is available at [www.invitrogen.com/cofa](http://www.invitrogen.com/cofa), and it is searchable by product lot number, which is printed on each box.

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