

Truin Science Ltd.

dNTP Set

(4x25µmol)

Cat. # RTS5012

0.25ml of 100mM dATP 0.25ml of 100mM dCTP 0.25ml of 100mM dGTP 0.25ml of 100mM dTTP

*Store at -20°C *For research purposes only.

Ready Load - 100bp Ladder

bp ng/5µl

40

40 40

40

40

40

100

40

40

40

40

1500

000 900

800

700

600

500

400

300

200

100

100 bp Ladder

Cat. # RTS6010

Description

The set consists of 100mM aqueous solutions of dATP, dCTP, dGTP and dTTP, each supplied in a separate vial. Since the nucleotides are provided separately, the dNTP set offers maximum flexibility in preparation of reaction mixes for different applications.

Applications

For use in PCR, long PCR, RT-PCR, cDNA synthesis, primer extension, DNA sequencing and DNA labeling reactions.

Product Use Limitation

This product is developed, designed and sold exclusively for research purposes and in vitro use only. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

Important Note

Mix each dNTP solution prior to use.

Preparation of dNTP mixtures from dNTP set

dNTP mixture to be prepared	100mM dATP	/olumes of 100mM dGTP	dNTP Set, μ 100mM dCTP	100mM dTTP	Water, Nuclease -free, μl	Total volume of dNTP mixture, μl
2mM	10	10	10	10	400	500
of each	100	100	100	100	4600	5000
dNTP	250	250	250	250	11500	12500
10mM	10	10	10	10	60	100
of each	100	100	100	100	600	1000
dNTP	250	250	250	250	1500	2500
25mM of each dNTP	10 100 250	10 100 250	10 100 250	10 100 250		40 400 1000

Getting 0.2mM dNTP for PCR

Volume of PCR	dNTP	Mixture to be added to	PCR
mixture	2mM	10mM	25mM
25μl 50μl 100μl	2.5µl 5µl 10µl	0.5µl 1µl 2µl	0.2µl 0.4µl 0.8µl

Method	Specification	Result
	Purity Assay	
IPLC column c18; letection UV (at orresponding λ_{max}); nobile phase : $\lambda_{TEAA} 0.1M, pH$ 2.0; B=60% CH ₃ CN/A)	>99%	dATP 99.2% dCTP 99.0% dGTP 99.0% dTTP 99.4%
O test(test for letection of exo-, endo- leoxyribonuclease nd phosphatase ontaminants)	Not Detectable	Passed
tibonuclease assay test for detection of Nase contaminants Ising [³ H]-RNA as a ubstrate)	Not Detectable	Passed
	Functional Assay	
CR with <i>Pfu</i> and aq DNA Polymerase	Production of 1000 bp PCR fragment from 2ng of genomic DNA	Passed
	рН 7.0-7.5	
	Concentration	
		1470 400 144

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Other Recommended Products

Ready Load – 1 kb Ladder Cat. # RTS6020

1 kb Ladder



TruPfu DNA Polymerase (250 U) 2.5U/µl Cat. # ETS4020

TruTaq DNA Polymerase 500 U (100µl) 5U/µl Cat. # ETS4010



agarose 7%