

Product Insert dNTP MIX

Reasearch Use Only

Product:

dNTP Mix, ready-to- use. Available in 10mM, 40mM and 100mM concentrations.

Catalogue numbers:

Cat Number	Final Conc	Presentation
BIO-39044	10mM	1x 1ml
BIO-39053	10mM	10 x 1ml
BIO-39043	40mM	1 x 500µl
BIO-39028	100mM	1 x 500µl
BIO-39029	100mM	4 x 500µl

Description:

A mix of dATP, dGTP, dCTP, and dTTP, (pH 7.0).

Typical Analysis:

Lithium salts, >99% deoxynucleoside triphosphates (HPLC, area %), <1% deoxynucleoside monophosphates and deoxynucleoside diphosphates

Purity

Bioline dNTP's are >99% pure by HPLC and are free of DNAse, RNAse, Protease, phosphatase and nicking activity

Application:

For direct use in DNA synthesis in vitro. Add the Master Mix directly into the reaction mixture. We recommend a final concentration of between 1-2mM.

Our dNTP's have been tested rigorously for longrange and RT PCR.

Storage and stability:

Bioline dNTPs can be stored for 12 months at -20°C or -70°C, in a constant temperature freezer. Avoid multiple freezing/thawing. For long-term usage, aliquoting is recommended.

dNTP Characteristics

Deoxynucleotide Molecular weight Molar Extinction(1µmol) dATP 535.2 15.3 (A₂₆₀)

dGTP 533 13.7 (A₂₅₂) dCTP 511.1 9.6 (A₂₇₂) dTTP 505.9 8.4 (A₂₆₀)

100mM Mix contains 25 mM of each dNTP

Reaction Volume Master Mix No: of Reactions

1000 50µl $0.5\mu l$

40mM Mix contains 10 mM of each dNTP

Reaction Volume Master Mix No: of Reactions 1.25µl 400 50µl

10mM Mix contains 2.5 mM of each dNTP

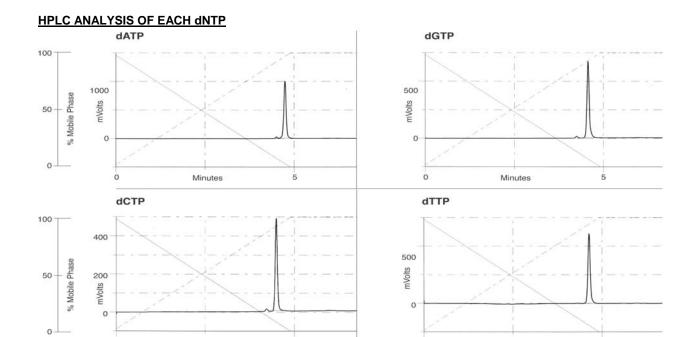
No: of Reactions Reaction Volume Master Mix 200 50µl 5.0µl

This is a guide only, for long-range applications adjust accordingly.

Note: The PCR process is covered by patents issued and applicable in certain countries

This product contains a declaration of analysis at the time of manufacture

See Overleaf for HPLC Analysis



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Minutes

20mM KH₂PO₄, 2mM TBA Br 20mM KH₂PO₄, 2mM TBA Br, Metanol 50%

0

Minutes