



Product Insert
100mM dNTP Set

Research Use Only

Product

Deoxynucleoside Triphosphate (dNTP) Set

Catalogue No.:

BIO-39025 4 x 25µmol
BIO-39026 4 x 100µmol
BIO-39027 4 x 500µmol

Description:

A set of 4 separate 100mM solutions (dATP, dGTP, dCTP, and dTTP, (pH 7.0). Each solution contains 25µmol (250µl) of the corresponding dNTP.

Purity:

Bioline dNTP's are >99% pure by HPLC and are free of DNase, RNase, Protease, phosphatase and nicking activity.

Storage and stability:

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

Batch details:

Concentration: 100mM each
Presentation: 250 µl per tube
Batch No: See vial

Typical Analysis:

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

dNTP Characteristics:

Deoxynucleotide	Molecular Weight	Molar Extinction
dATP	535.2	1µmol = 15,3 A ₂₆₀ units
dGTP	533.2	1µmol = 13,7 A ₂₅₂ units
dCTP	511.1	1µmol = 9,6 A ₂₇₂ units
dTTP	505.9	1µmol = 8,4 A ₂₆₀ units

Application:

For PCR, direct use in DNA sequencing, labelling and *in-vitro* DNA synthesis. Prepare a Master Mix for DNA synthesis as follows: Mix equal volumes of all separate dNTP solutions in a new microcentrifuge tube. The final solution has a concentration of 25mM of each dNTP, which corresponds to a 100x working concentration.

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

HPLC ANALYSIS OF EACH dNTP

