

dUTP 100mM solution

2'-Deoxyuridine 5'-Triphosphate sodium salt solution

Cat #	Description
M3022.0020	100mM dUTP solution in water adjusted to pH 7.5, Na-salt in 200µL.
M3022.0100	100mM dUTP solution in water adjusted to pH 7.5, Na-salt in 1mL.
M3022.5100	100mM dUTP solution in water adjusted to pH 7.5, Na-salt in 5 x 1mL.

Description:

dNTPs are the building material for DNA molecules and used in various assays based on PCR. The purity of dNTPs is highly important for assay results' accuracy. For that reason the use of highly purified dNTP (as these available from Genaxxon) preparation is particularly recommended for sensitive techniques such as long-range PCR, RT-PCR, multiplex, mutagenesis experiments and Real-Time applications.

All dNTPs offered by Genaxxon are HPLC tested and can be employed in highly sensitive assays.

Usage:

dUTP may be used in place of dTTP in PCR and RT-PCR protocols to prevent carryover from previous amplifications.

The substitution of dTTP by dUTP in PCR experiments results in uracil-containing PCR products that are suitable for most standard applications. The enzyme uracil-DNA-glycosylase (UDG) can be added to a PCR premix to excise uracil from any contaminating PCR product, thereby preventing false positive PCR results.

Specifications:

C₉H₁₅N₂O₁₄P₃ (free acid)
 MW = 468.0 g/mol

Purity:

HPLC analysis (>98%).	Result: passed
NMR analysis (inorganic phosphates):	Result: passed
Exo-endo deoxyribonucleases contamination test:	Result: passed
UV-spectrum:	Result: confirms

Performance in PCR:

Amplification of 8kb PCR fragment from genomic DNA with <i>Taq</i> DNA polymerase:	Result: passed
Amplification of 0.8kb PCR fragment from genomic DNA with <i>Pfu</i> DNA polymerase:	Result: passed

Caution

dNTPs are stable at -20°C in a constant-temperature freezer for at least 24 months.

Avoid multiple thawing/freezing. For long term usage we recommend to aliquot nucleotides.

Related Products:

Genaxxon offers a complete range of nucleoside-5'-triphosphates in highly purified form in different convenient ready-to-use solutions. The dNTP-sets and mixes are ready-to-use for DNA-polymerisation reactions, all DNA labelling- and sequencing reactions.

Cat #	Description
M3015.4020	Set of 4x20 µmol dA, dC, dG, dT solution, 100 mM Na-salt in 200µL H ₂ O.
M3015.4100	Set of 4x100 µmol dA, dC, dG, dT solution, 100 mM Na-salt in 1mL H ₂ O.
M3015.4500	Set of 4x500 µmol dA, dC, dG, dT solution, 100 mM Na-salt in 5 x 1mL H ₂ O.
M3016.4010	Mix of 4x10 µmol dA, dC, dG, dT solution, 10 mM Na-salt in 200µL H ₂ O.
M3016.4050	Mix of 4x50 µmol dA, dC, dG, dT solution, 10 mM Na-salt in 1mL H ₂ O.