GENAXXON bioscience

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Genaxxon BioScience
dUTP data sheet

2'- Deoxyuridine Triphosphate (sodium salt)

Cat #	Description
M3022.0020	200µL of 100mM dUTP solutionn adjusted to pH 7.5, Na-salt.
M3022.0100	1000µL of 100mM dUTP solutionn adjusted to pH 7.5, Na-salt.
M3022.5100	5 x 1000µL of 100mM dUTP solutionn adjusted to pH 7.5, Na-salt.

Description:

dNTPs are the building material for DNA molecules and are used in various assays based on PCR: The purity of dNTPs is highly important for assay accuracy. dNTPs synthesis itself does results in a product that is mixed up with impurities such as dNDPs, dNMPs, and heavy metals. These impurities have to be extracted by HPLC purification to result in highly pure dNTPs. The resulting highly pure dNTPs are recommended for sensitive techniques such as long-range PCR, RT-PCR, multiplex-PCR, and Real-Time PCR.

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:

$C_9H_{15}N_2O_{14}P_3$ (free acid)

MW = 468.0 g/mol

Purity:

96% (HPLC)

Performance in PCR:

Each lot of dUTP is tested in PCR reactions for specific DNA amplification

Caution

dNTPs are stable at -20°C in a constant-temperature freezer. **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 4x20µmol dA, dC, dG, dT solution, 100mM Na-salt in 200µL H_2O.
M3015.4100	Set of 4x100µmol dA, dC, dG, dT solution, 100mM Na-salt in 1mL H_2O.
M3015.4500	Set of 4x500µmol dA, dC, dG, dT solution, 100mM Na-salt in 5 x 1mL H_2O.
M3016.4010	Mix of 4x10µmol dA, dC, dG, dT solution, 10mM Na-salt in 200µL H_2O.
M3016.4050	Mix of 4x50µmol dA, dC, dG, dT solution, 10mM Na-salt in 1mL H_2O.