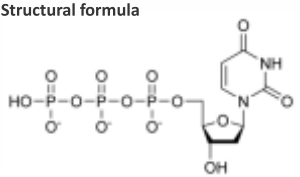
Product Information

dUTP Solution - Sodium Salt

CD7000	100 mM	25 ml
CD7001	100 mM	100 ml
CD7002	100 mM	5 ml

Structural formula



Storage

-20°C for 24 months

Description

Ultrapure dUTP (2´-Deoxyuridine, 5´-Triphosphate) supplied as sodium salt in purified water (pH 8.5). dUTP can be used in place of dTTP in PCR and RT-PCR protocols to prevent carryover from previous amplifications. The substitution of dUTP for dTTP in PCR results in uracil-containing PCR products that are suitable for most standard applications. The enzyme uracil-N-glycosylase (UNG, also referred to as UDG) can be added to a PCR premix to excise uracil from any contaminating PCR product, thereby preventing false positives. Each lot of dUTP is tested to ensure specific DNA amplification and the absence of nuclease activity.

Features

- Ideal for PCR amplification and cDNA synthesis
- Nuclease and ribonuclease free

Applications

- DNA amplification
- Avoid carryover contamination between PCRs to eliminate a source of false positives.

Preparation Note

Working solution: We recommend to prepare a deoxynucleotide mix containing dATP, dCTP, dGTP (10 mM, each), dUTP (30 mM); (e.g., for the preparation of 100 µl nucleotide mix add 10 µl of dATP, dCTP, dGTP (each) and 30 µl dUTP to 40 µl Water,PCR grade).

Quality Control

Method	Specification	Result
Purity assay (HPLC)	≥ 99%	Pass
Nuclease activity	Not detectable	Pass
Ribonuclease activity	Not detectable	Pass
Protease activity	Not detectable	Pass
Nicking activity	Not detectable	Pass
Functional assay (PCR)	Amplify 665 bp and 1kb amplicons	Pass

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