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Product Information

SMOChem™ Series

dUTP Solution - Sodium Salt

CD7000	100 mM	25 ml
CD7001	100 mM	100 ml
CD7002	100 mM	5 ml
CD7003	100 mM	1 ml

Storage

-20°C for 36 months

Applications

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

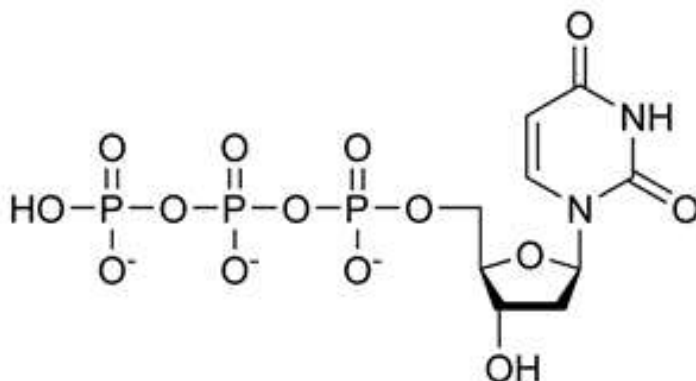
Description

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

Structural formula



Preparation Note

Working solution: We recommend to prepare a deoxynucleotide mix containing dATP, dCTP, dGTP (10 mM, each), dUTP (20 mM); (e.g., for the preparation of 100 μ l nucleotide mix add 10 μ l of dATP, dCTP, dGTP (each) and 20 μ l dUTP to 50 μ l Water, PCR grade).

Quality Control

Method	Specification	Result
Purity assay (HPLC)	$\geq 99\%$	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 20 kb amplicons	Pass
Functional assay (RT-PCR)	Synthesize cDNA	Pass

Other Information

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For research only

2024 ver. 1.4.0

P06-F11-A1