# Fluorescein-dUTP *1 mM in Tris Buffer (pH 7.5)*

| *Ordering Information* | *Storage Conditions* |
|---|---|
| Product Number: 17022 (25 nmoles) | Keep at -80 °C and avoid light |

## General Properties

Molecular Weight: 1060.62
Maximum excitation: 492 nm
Maximum Emission: 515 nm
Solvents: 10mM Tris-HCl + 1mM EDTA (pH=7.5)

## Biological Applications

The dye-modified deoxyuridine 5'-triphosphates (such as aminoallyl-dUTP) can be used to produce dye-containing DNA by conventional enzymatic incorporation methods such as reverse transcription, nick translation, random primed labeling, or PCR. This enzymatic fluorescence labeling method is widely used for both FISH probes and microarray-based experiments. This fluorescein-dUTP conjugate can be used as a green fluorescence color with Spectrum Green™ filter set (Spectrum Green™ is the trademark of Vysis).

## Storage Conditions

Best stored at -80 °C, it can be diluted 10 folds in TE Buffer (10mM Tris-HCl + 1mM EDTA (pH=7.5)) for convenient pipetting. Expiration date is six months from the date of receipt.

## Application Instructions

The following instruction is recommended as a starting point for labeling ~1µg dsDNA, optimum labeling conditions may vary for different cases.

| Reagents | Final Concentration for 20µL reaction volume |
|---|---|
| DNA | 0.05 µg/µL |
| DNA Polymerase | 25 ~ 50U/mL |
| Fluorescein-dUTP | 10 ~ 100µM |
| Reaction Buffer | 10 mM Tris-HCl (pH = 7.5) contains the following components:<br>1 mM EDTA<br>5 mM NaCl<br>0.1 mM DTT<br>1 mM dATP + 1 mM dCTP+ 1 mM dGTP+ 1 mM dTTP |
| dd $H_2O$ | Adjust volume as need to make 20 µL reaction volume |

***Disclaimer:*** *This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact our technical service representative for more information.*