

Fluorescein-12-dUTP *1 mM in Tris Buffer (pH 7.5)* *CAS 214154-36-6*

Catalog number: 17022
Unit size: 25 nmoles

Component	Storage	Amount
Fluorescein-dUTP *1 mM in Tris Buffer (pH 7.5)* *CAS 214154-36-6*	Freeze (<-15 °C), Minimize light exposure	25 nmoles

OVERVIEW

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).

AT A GLANCE

Important notes

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.

SAMPLE EXPERIMENTAL PROTOCOL

Table:1. 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 ~ 100 µM
Reaction Buffer	10 mM Tris-HCl (pH = 7.5) contains the following components: 1 mM EDTA 5 mM NaCl 0.1 mM DTT 1 mM dATP + 1 mM dCTP+ 1 mM dGTP+ 1 mM dTTP
ddH ₂ O	Adjust volume as need to make 20 µL reaction volume

EXAMPLE DATA ANALYSIS AND FIGURES

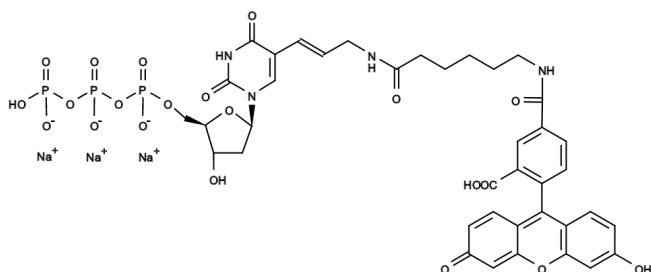


Figure 1. Chemical structure for Fluorescein-12-dUTP *1 mM in Tris Buffer (pH 7.5)* *CAS 214154-36-6*