

CERTIFICATE OF ANALYSIS

Fluorescein-12-dUTP,

molecular biology grade

Fluorescein-6-carboxaminocaproyl-[5-(3-aminoallyl)-2'-deoxyuridine-5'-triphosphate]

#R0101 25 nmol

Lot: Expiry Date:

Concentration: 1 mM Volume: 25 µl

Formula: $C_{39}H_{41}N_4O_{21}P_3$

Molecular Weight: 994.7

Store at -20°C in the dark

In total 1 vial.



General Characteristics

 λ_{max} =495 nm, ϵ =70.0 x 10³ (pH 9.0). Excitation maximum at 495 nm; Emission maximum at 520 nm (pH 9.0).

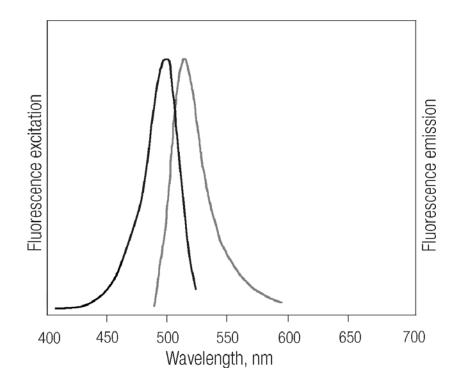


Fig.1. Normalized excitation-emission spectra of Fluorescein-12-dUTP.

Appplications

- Fluorescein-labeled probes can be used for in situ hybridization with direct fluorescence detection.
- Fluorescein-12-dUTP can be used for enzymatic nonradioactive labeling of DNA in PCR, nick translation or cDNA synthesis reactions. This modified nucleotide can be incorporated in DNA using:
 - E.coli DNA Polymerase I (holoenzyme, Klenow or Klenow exo fragment),
 - Reverse Transcriptases (RevertAid[™] M-MuLV or RevertAid[™] H Minus M-MuLV)
 - Taq DNA Polymerase.

QUALITY CONTROL ASSAY DATA

- Functionally tested in cDNA synthesis with RevertAid[™]
 H Minus M-MuLV Reverse Transcriptase.
- Purity of >90% by HPLC.
- Endo-, exodeoxyribonucleases and ribonucleases free.

Quality authorized by:



Jurgita Zilinskiene

PRODUCT USE LIMITATION.

This product is developed, designed and sold exclusively *for research purposes and in vitro use only.* The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

Please refer to www.fermentas.com for Material Safety Data Sheet of the product.