

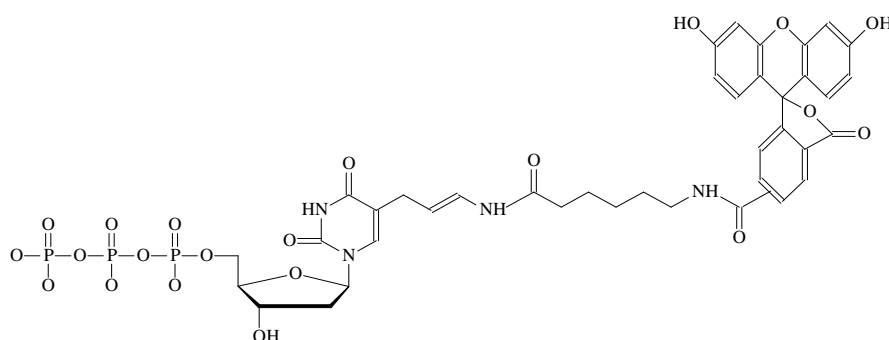
Description: Fluorescein-12-dUTP (Fluorescein-5(6)-carboxamidocaproyl-[5(3-aminoallyl)2'-deoxyuridine-5'-Triphosphate]), tri(triethylammonium) salt) is a widely used compound for non-radioactive DNA-labeling. The most popular is based on the usage of dNTPs mixture which contains Flu (TAMRA)-dUTP and all the other 4 dNTs in regular concentrations. The molar ratio of dUTP/labeled dUTP (or dTTP/labeled dUTP) can vary from 3:1 to 1:1.

The incorporation efficiency depends mainly on the usage of dTTP or dUTP (the incorporation efficiency of dTTP is slightly better than those for dUTP) and on the enzyme used for PCR. Regular Taq DNA polymerase incorporates dUTP (and especially labeled dUTP) less efficient than Taq DNA Polymerase with modified active center.

Flu-12-dUTP can be supplied as dry powder or water solution.

Ref No.	507004	color
Flu-12-dUTP, 1 mM	40 µL	white
Datasheet	1	--

Application: Fluorescent labelling of DNA by terminal deoxynucleotidyl transferase or DNA-polymerases.



Concentration: 1 mM for solution in water
 MW = 994 g/mol for dry powder

Quality control:

- HPLC analysis
- NMR analysis (inorganic phosphates)
- Exo-endonucleases contamination test
- UV-spectral analysis
- Spectrophotometry

Storage: -20°C