

5-Aminoallyl-dUTP (AA-dUTP), 10 mM in TE buffer

Catalog Number	Packaging Size
C401	100 μ L

Storage upon receipt: -20°C

I. Product Description

5-Aminoallyl-dUTP (5-[3-aminoallyl]-2'-deoxyuridine-5'-triphosphate) is supplied as 10 mM solution in TE buffer. The nucleotide is designed for enzymatic indirect non-radioactive labeling of DNA during cDNA synthesis, PCR, nick-translation, random-primed labeling, or primer extension. 5-Aminoallyl-dUTP can be enzymatically incorporated into DNA with Reverse Transcriptases, Taq DNA Polymerase, phi29 DNA Polymerase, Klenow Fragment, Klenow Fragment, exo- and DNA Polymerase I. The resulting amine-containing DNA can be subsequently labeled with any amine-reactive fluorescent dye, biotin or hapten. This two-step method for labeling nucleic acids is considerably more economical than the one-step method using a pre-labeled dUTP.

II. Specifications

Concentration: 10 mM solution in TE buffer

Storage: Store at -20°C

Molecular Formula: $C_{12}H_{17}N_3Na_3O_{14}P_3$

Molecular Weight: 589.17

III. General Characteristics

$\lambda_{max}=240$ nm, $\epsilon=11.9 \times 10^3$ $M^{-1}cm^{-1}$ (pH 7.0) ;

$\lambda_{max}=290$ nm, $\epsilon =7.8 \times 10^3$ $M^{-1}cm^{-1}$ (pH 7.0) .

