



5-Aminoallyl-dUTP (AA-dUTP), lyophilized powder

Catalog Number	Packaging Size
C401B	1 μ mol

Storage upon receipt: -20°C

User Manual

GeneCopoeia, Inc.

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I. Product Description

5-Aminoallyl-dUTP (5-[3-aminoallyl]-2'-deoxyuridine-5'-triphosphate) is supplied as lyophilized form. 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: NA

Storage: Store at -20°C

Molecular Formula: C₁₂H₁₇N₃Na₃O₁₄P₃

Molecular Weight: 589.17

III. General Characteristics

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

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

