



## Biotin-11-dUTP, lyophilized powder

Catalog Number	Packaging Size
C403B	50 nmol

Storage upon receipt: -20°C

### User Manual

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### I. Product Description

Biotin-11-dUTP (biotin- $\epsilon$ -aminocaproyl-[5-{3-aminoallyl}-2'-deoxyuridine-5'-triphosphate]) is supplied as lyophilized powder. The nucleotide is designed for enzymatic non-radioactive labeling of DNA by PCR, nick-translation, cDNA synthesis, random primed labeling, or primer extension. Biotin-11-dUTP can be enzymatically incorporated into DNA with Reverse Transcriptases, Taq DNA Polymerase, phi29 DNA Polymerase, Klenow Fragment, exo-, Klenow Fragment, and DNA Polymerase I. The number '11' is the number of atoms in the linker between biotin and dUTP.

### II. Specifications

Concentration: 1 mM solution in TE buffer

Storage: Store at  $-20^{\circ}\text{C}$

Molecular Formula:  $\text{C}_{28}\text{H}_{42}\text{N}_6\text{Na}_3\text{O}_{17}\text{P}_3\text{S}$

Molecular Weight: 928.6

### III. General Characteristics

$\lambda_{\text{max}}=240 \text{ nm}$ ,  $\epsilon=10.7 \times 10^3 \text{ M}^{-1}\text{cm}^{-1}$  (pH 7.0);

$\lambda_{\text{max}}=289 \text{ nm}$ ,  $\epsilon = 7.1 \times 10^3 \text{ M}^{-1}\text{cm}^{-1}$  (pH 7.0).

