

Data Sheet (06.04.2017)

Biotin-16-dUTP

Non-fluorescent labeled aminoallyl-dUTP

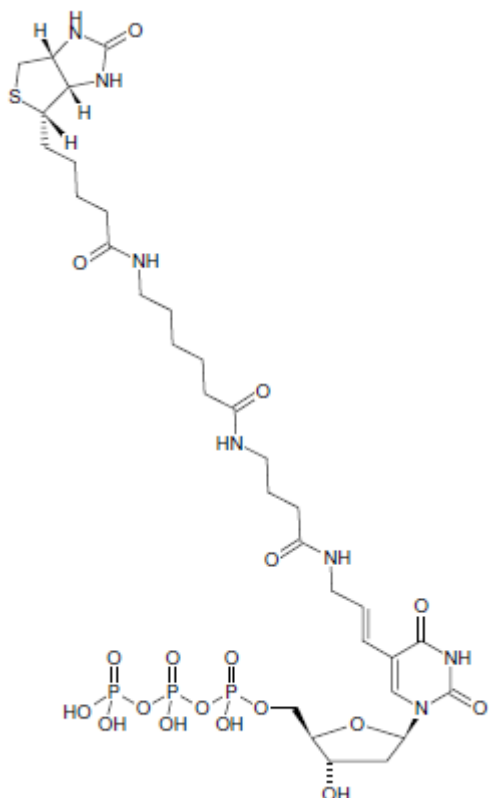
Cat.-No.	Amount.	Conc.
mi-N1350S-BIO	200 µl	1 mM
mi-N1350L-BIO	5x 200 µl	1 mM

For research use only! Only for in vitro use!

mi-Biotin-dUTP

5-(3-aminoallyl)-2'-deoxy-uridine-5'-triphosphate labeled with Biotin, triethylammonium salt.

Structure



Description

Biotin-dUTP is recommended for direct enzymatic labeling of DNA. The labeled-dUTP is specially optimized for incorporation into DNA by a wide variety of DNA Polymerases. Recommended labeling methods include PCR, DOP-PCR, Nick Translation, 3'-end labeling and RT-PCR.

In PCR labeling, repeated cycles of denaturation, annealing and extension allow the amplification of a specific DNA fragment. When dTTP is partially substituted by Biotin-dUTP a Biotin labeled double-stranded DNA is generated.

The resultant DNA is suited for a variety of hybridization experiments, including Southern and Northern blots, colony hybridizations and in situ hybridizations.

Recommended concentrations in PCR

Component	Final conc.
dATP; dCTP; dGTP	100 µM each
dTTP	50 µM ¹⁾
Biotin-dUTP	50 µM ¹⁾
forward Primer	500 nM
reverse Primer	500 nM
Template DNA	5-500 pg/ µl

1) The optimal final concentration of the labeled nucleotide may vary depending on the application.

Purity (HPLC): ≥ 98 %

Storage conditions: - 20 ± 5°C