

BIOSAN,
28, Ingenernaya Str.
630090, Novosibirsk, Russia
tel.: +7(383) 363-51-91, 363-22-40
fax: +7(383) 363-51-91
mail@biosan-nsk.ru
www.biosan-nsk.ru



DATA QUALITY SHEET

Biotin-11-dUTP

Biotin-e-aminocaproyl-[5-{3-aminoallyl}-2'-deoxyuridine-5'-triphosphate]

FOR RESEARCH USE ONLY

Description

Biotin-11-dUTP (Biotin-11-2'-deoxyuridine-5'-triphosphate, tetralithium salt) is a widely used compound for non-radioactive DNA labeling. Biotin-11-dUTP can be enzymatically incorporated into DNA via nick-translation, random priming, 3'-end terminal labeling or in the process of PCR. The number "11" is the number of carbon atoms in the backbone of linker between dUTP and biotin. The longer the linker is, the more effective interaction between biotin and avidin. On the other hand, the shorter the linker is, the more effective is the incorporation of dUTP into DNA.

The length of linker "11" is optimal for the majority of applications.

Delivery form

Sterile water solution of ammonium salt nucleotide. Colorless transparent liquid.

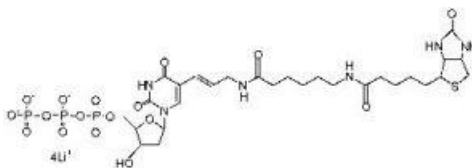
Concentration

0.01 M

Quality control

– Purity more than 96% (ion-exchange chromatography, TLC, NMR, UV-spectroscopy)

Structural formula (free acid)



Formula (Anhydrous Free Acid)

$C_{28}H_{41}N_6O_{17}P_3S$

Molecular weight

861.6 g/mol

Storage

-20°C. Avoid multiple freezing-thawing.

Transportation

The product does not require special conditions of transportation.