

DATA QUALITY SHEET



Biotin-4-dUTP

FOR RESEARCH USE ONLY

Cat. GC-013-003

DESCRIPTION

Biotin-4-2'-deoxyuridine-5'-triphosphate, tetralithium salt. Biotin-4-dUTP is a widely used compound for non-radioactive DNA labeling. Biotin-4-dUTP can be enzymatically incorporated into DNA via nick-translation, random priming, 3'-end terminal labeling or in the process of PCR. The number "4" is the number of carbon atoms in the backbone of linker between dUTP and biotin. The longer the linker, the more effective is the interaction of biotin with Avidin. On the other side, the shorter the linker, the more effective is the incorporation of dUTP into DNA while PCR reaction.

CONCENTRATION

1 mM

STORAGE BUFFER

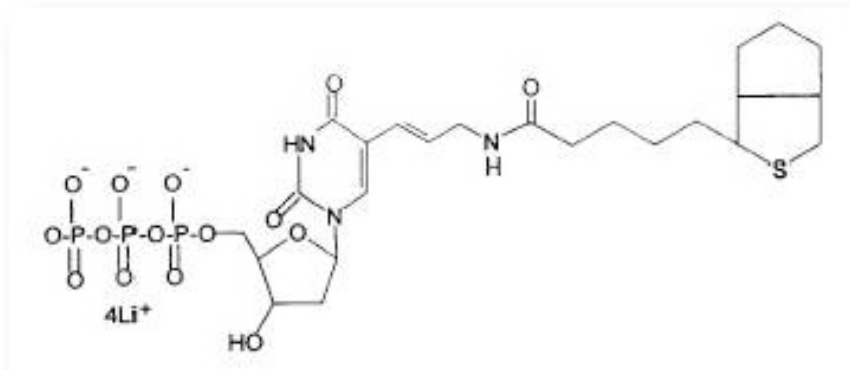
10 mM Tris-HCl (pH 7.5), 0,1 mM EDTA

STORAGE TEMPERATURE

-20°C

PURITY

Higher than 96% (by ion-exchange chromatography, TLC, NMR and UV).



STABILITY

Biotin-4-dUTP is stable for more than 12 months if stored at -20°C. Repeated "freeze-thaw" cycles should be avoided.

PACK SIZE

50 µl (50 µmol)

FUNCTIONAL ANALYSIS

Tested functionally in a unit activity test.