

## DATA QUALITY SHEET



### **Biotin-11-dUTP**

FOR RESEARCH USE ONLY

Cat. GC-013-016

#### **DESCRIPTION**

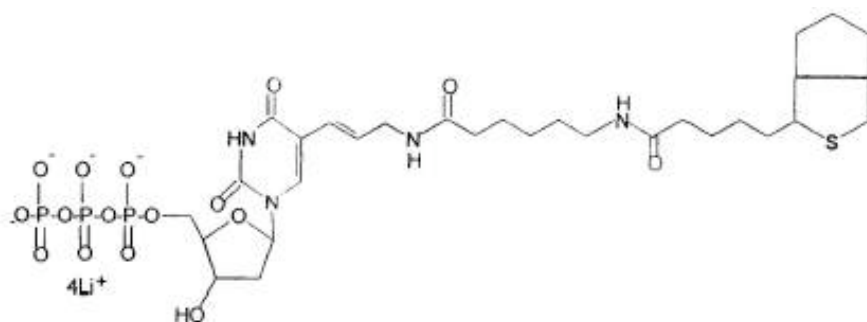
Biotin-11-dUTP (Biotin-11-2'-deoxyuridine 5'-triphosphate tetralithium salt) is a widely used compound for non-radioactive DNA labeling. Biotin-11-dUTP can be enzymatically incorporated into DNA via nick-translation, random priming, 3'-end terminal labeling or in the process of PCR. The number '11' is the number of carbon atoms in the backbone of the linker between dUTP and biotin. The longer the linker is, the more effective interaction of biotin with avidin occurs. From the other side, the shorter the linker is, the more effective incorporation of dUTP into DNA can be provided. But it turned out that the length of linker '11' is optimal for the majority of applications.

**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-11-dUTP is stable for more than 12 months if stored at -20°C. Repeated “freeze-thaw” cycles should be avoided.

**PACK SIZE** 100 µl (1 µmol)

**FUNCTIONAL ANALYSIS** Tested functionally in a unit activity test.