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## Introduction

Biotin-14-dATP is provided as 0.4 mM solution in 125  $\mu$ L of 100 mM Tris-HCl (pH 7.5), 0.1 mM EDTA. The amount provided is sufficient to label up to 50  $\mu$ g of DNA by nick translation. Biotin-14-dATP is a dATP analog which contains biotin attached at the 6-position of the purine base by a 14-atom spacer arm. The biotin-labeled nucleotide is incorporated into DNA by nick translation in the presence of the deoxynucleotide triphosphates dTTP, dGTP and dCTP. Other labeling procedures (i.e., homopolymer tailing with terminal deoxynucleotidyl transferase, replacement synthesis with T4 DNA polymerase or random primed synthesis) may be satisfactory. The biotin-labeled DNA can be detected colorimetrically using Streptavidin-Alkaline Phosphatase Conjugate and NBT/BCIP or by chemiluminescence using streptavidin alkaline phosphatase and an appropriate chemiluminescent substrate.

## Package Information

Component	M0044
Biotin-14-dATP	50 nmol

## Storage

Store at 2-8°C.

## Specifications

Concentration: 0.4 mM in 100 mM Tris-HCl (pH 7.5), 0.1 mM EDTA.

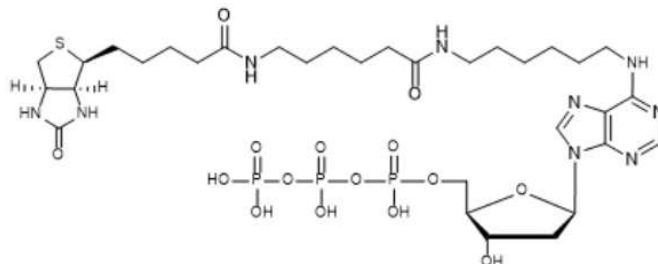
## Quality Control

Purity of biotin-14-dATP is evaluated by reverse phase HPLC. A single peak with >90% of the area must be observed.

## Biotin-14-dATP

Cat. #: M0044 Size: 50 nmol

## General Characteristics



$\lambda_{\max}$ =266 nm,  $\epsilon$ =16.2  $\times 10^3$  M<sup>-1</sup>cm<sup>-1</sup> (pH 7.5)