

CERTIFICATE OF ANALYSIS

Aminoallyl-dUTP, molecular biology grade

5-(3-aminoallyl)-2'-deoxyuridine-5'triphosphate, sodium salt

#R1101 2.5µmol

Lot:

Concentration: 50mM

Volume: 0.05ml

Formula: C₁₂H₁₇N₃O₁₄P₃Na₃

Molecular Weight: 589.2 (523.2)

Store at -20°C

In total 1 vial.

General Characteristics

λ_{\max} = 240nm, ϵ = 11.9x10³ (pH 7.0);

λ_{\max} = 290nm, ϵ = 7.8x10³ (pH 7.0).

Applications

- 5-Aminoallyl-dUTP used for indirect non-radioactive enzymatic labeling of DNA in PCR, nick translation or cDNA synthesis. The resulting aminoallyl containing DNA can be subsequently labeled with amine-reactive fluorescent dyes, biotin or hapten. This two-step technique consistently results in uniform and high degree labeling of DNA.
- This modified nucleotide can be incorporated in DNA using:
 - *E.coli* DNA Polymerase I (holoenzyme, Klenow or Klenow exo⁻ fragment),
 - Reverse Transcriptases (RevertAid™ M-MuLV or RevertAid™ H Minus M-MuLV)
 - *Taq* DNA Polymerase.

PRODUCT USE LIMITATION.

This product is developed, designed and sold exclusively *for research purposes and in vitro use only*. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

Please refer to www.fermentas.com for Material Safety Data Sheet of the product.

(2) Revised 30.05.2005

QUALITY CONTROL ASSAY DATA

Method	Specification	Result
Purity Assay		
HPLC (column C2/C18; detection UV at 285; mobile phase: A=TEAA 0.1M, pH 7.0; B=60% CH ₃ CN/A)	>95%	96%
LO test (test for detection of exo-, endo-deoxyribonuclease and phosphatase contaminants)	Not detectable	passed
Ribonuclease assay (test for detection of RNase contaminants using [³ H]-RNA as a substrate)	Not detectable	passed
Function Assay		
First strand cDNA with RevertAid™ H Minus M-MuLV Reverse Transcriptase	Production of 1100 bp fragment using 1µg of control RNA and oligo dT primer	passed
pH		
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Concentration		
Spectrometry (λ _{max} 240nm; ε = 11.9x10 ³ M ⁻¹ cm ⁻¹ at pH 7.0) (λ _{max} 290nm; ε = 7.8x10 ³ M ⁻¹ cm ⁻¹ at pH 7.0)	50±2mM	50mM

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Quality authorized by:



Jurgita Zilinskiene