

Certificate of Analysis

Advantage® UltraPure PCR Deoxynucleotide Mix (10 mM each dNTP)

Catalog No.	Amount	Lot Number
639125	4 x 100 µl	Specified on product label.

Description

Advantage UltraPure PCR Nucleotide Mix, which contains all four dNTPs in a premixed aqueous solution, is ready for use in PCR amplification, cDNA synthesis, and in vitro mutagenesis.

Package Contents

- 4 x 100 µl Advantage UltraPure dNTP Mix (10 mM each)

Storage Conditions

- Store at -20°C.

Expiration Date

- Specified on product label.

Storage Buffer

- RNase-free Water

Chemical Composition

- dATP: C₁₀H₁₄N₅Na₂O₁₂P₃
- dCTP: C₉H₁₄N₃Na₂O₁₃P₃
- dGTP: C₁₀H₁₄N₅Na₂O₁₃P₃
- dTTP: C₁₀H₁₅N₂Na₂O₁₄P₃

Molecular Weights

- dATP: 535.1 g/mol
- dCTP: 511.1 g/mol
- dGTP: 551.1 g/mol
- dTTP: 526.1 g/mol

Shipping Conditions

- Dry ice

Product Documents

Documents for our products are available for download at takarabio.com/manuals

Quality Control Data

1. Heat stability assay

20 µl of Advantage UltraPure PCR Nucleotide Mix was subjected to 20 cycles of heating/cooling (95°C for 30 sec, 66°C for 30 sec, 72°C for 30 sec). Two standard 50 µl PCR reactions were performed using either 1 µl of the

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precycled mix or 1 μ l of fresh Advantage UltraPure PCR Nucleotide Mix. Equal volumes of PCR product from the reactions were run for comparison on an agarose/EtBr gel. A single, specific band was observed for each sample. Equivalent yields of PCR product were also observed.

2. Nuclease assay

Prior to mixing, each Advantage UltraPure dNTP was mixed with plasmid DNA and incubated at 37°C for 16 hours. No degradation was detected

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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