

## Advantage® UltraPure dNTP Combination Kit (100 mM each dNTP)

**Catalog No.**  
639132

**Amount**  
Each

**Lot Number**  
Specified on product label.

### Description

Advantage UltraPure dNTP Combination Kit contains all four dNTPs in aqueous solution in separate tubes. All four dNTPs are ready for use in PCR amplification, cDNA synthesis, labeling reactions, dideoxy sequencing, and *in vitro* mutagenesis.

### Package Contents

- 250 µl dATP, sodium salt (100 mM)
- 250 µl dCTP, sodium salt (100 mM)
- 250 µl dGTP, sodium salt (100 mM)
- 250 µl dTTP, sodium salt (100 mM)

### Storage Conditions

- Store at -20°C.

### Expiration Date

- Specified on product label.

### Storage Buffer

- ddH<sub>2</sub>O (pH 8.3)

### Chemical Composition

- dATP: C<sub>10</sub>H<sub>14</sub>N<sub>5</sub>Na<sub>2</sub>O<sub>12</sub>P<sub>3</sub>
- dCTP: C<sub>9</sub>H<sub>14</sub>N<sub>3</sub>Na<sub>2</sub>O<sub>13</sub>P<sub>3</sub>
- dGTP: C<sub>10</sub>H<sub>14</sub>N<sub>5</sub>Na<sub>2</sub>O<sub>13</sub>P<sub>3</sub>
- dTTP: C<sub>10</sub>H<sub>15</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>14</sub>P<sub>3</sub>

### 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](http://takarabio.com/manuals)

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#### Takara Bio USA, Inc.

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## Quality Control Data

### 1. Heat stability assay

20 µl of nucleotide mix containing 10 mM each nucleotide 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 precycled mix or 1 µl 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

100 nmol of 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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11/30/2022

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