

**BEYOND BIOTECHNOLOGY  
BEYOND INNOVATION**

FOR BETTER HEALTH CARE

The logo for addbio MEDITEK features the word "addbio" in a bold, lowercase sans-serif font, with a stylized leaf icon above the "i". Below "addbio" is the word "MEDITEK" in a smaller, uppercase sans-serif font. A thin horizontal line is positioned below the logo.

**addbio**  
MEDITEK

**Research Products Catalog  
for Molecular Biology**

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Reverse Transcription

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Real-time PCR

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2023-2024 Supplement

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Add Taq DNA Master (2x conc.)

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AddPrep Tissue Genomic DNA Extraction Kit  
AddPrep Plant Genomic DNA Extraction Kit  
AddPrep Bacterial Genomic DNA Extraction Kit  
AddPrep Soil Genomic DNA Extraction Kit

- **RNA Extraction**

AddPrep Total RNA Extraction Kit  
AddPrep Viral Nucleic Acid Extraction Kit



## Standard PCR Polymerase & Master Mix.

- **Normal Taq DNA Polymerase & Master Mix.**

Add Taq DNA Polymerase

Add Taq DNA Master (2x conc.)

- **Hot-start Taq DNA Polymerase & Master Mix.**

AddStart Taq DNA Polymerase

AddStart Taq DNA Master (2x conc.)

- **Multiplex PCR Master Mix.**

AddMulti Taq DNA Master (2x conc.)

- **High Performance PCR Master Mix.**

AddStart HP Taq DNA Polymerase

AddStart HP Taq DNA Master (2x conc.)

## Add Taq DNA Polymerase

**Product Code :** 17500

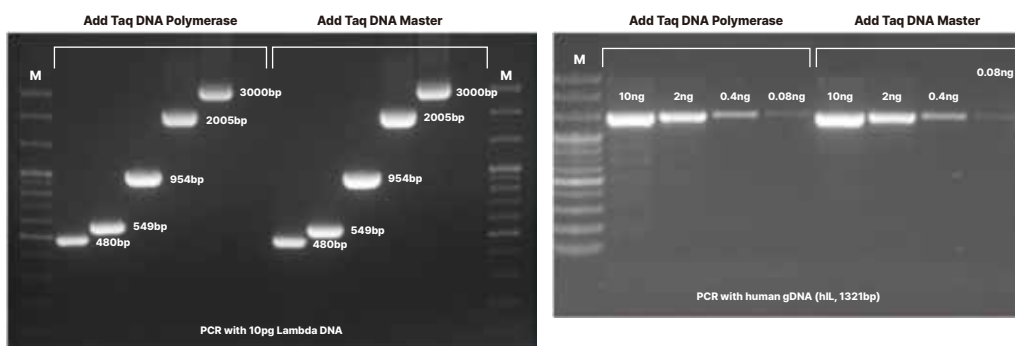
**Description :** Add Taq DNA Polymerase is a recombinant protein derived from the *Thermus aquaticus* DNA Polymerase I gene, expressed and purified from recombinant *Escherichia coli*. Taq DNA Polymerase is the most commonly used in PCR method. It possesses 5'→3' exonuclease activity as a characteristic of Taq DNA Polymerase and very weak 3'→5' exonuclease activity. In addition, since an A-tail is formed at the 3' end of the amplified DNA, a T-vector can be used for cloning using the amplification product. When utilizing Add Taq DNA Polymerase for PCR, 3 kb or less of amplification products can be obtained under standard PCR conditions. The 10x reaction buffer contains a range of components to maximize the activity of Taq DNA Polymerase, along with 20 mM MgCl<sub>2</sub>.

## Add Taq DNA Master, 2x conc.

**Product Code :** 35001, 35001SS

**Description :** Add Taq DNA Master (2x Conc.) is a pre-mixed product of essential components for PCR reactions, including Add Taq DNA Polymerase, Reaction Buffer (+Mg), dNTP mixture, gel loading dye (Xylene Cyanol FF), and enzyme stabilizers to maximize customers' convenience. Add Taq DNA Master (2x Conc.) ensures the same performance as the manual product and can produce amplification products of up to 3 kb under standard PCR conditions. Additionally, since an A-tail is formed at the 3' end of the amplified DNA, the T-vector can be used for cloning using the amplification product. This product is supplied in two forms of 1.0 mL per screw cap tube (Cat. No. 35001) and 10.0 µl per 8-strip tube (Cat. No. 35001SS).

### Performance Data :



Product Name	Product Code	Provided with
Add Taq DNA Polymerase	17500	Add Taq DNA Polymerase (5 U/µl), 100 µl 10x Reaction Buffer 1.0 mL 10mM dNTP Mix. (2.5 mM each) 1.0 mL
Add Taq DNA Master (2x Conc.)	35001 (tube type)	1.0 mL x 5 tubes
	35001SS (8-strip type)	10.0 µl / tube x 96 tests

\* For bulk order and customized specifications, please inquire separately.

## AddStart Taq DNA Polymerase

**Product Code :** 18500

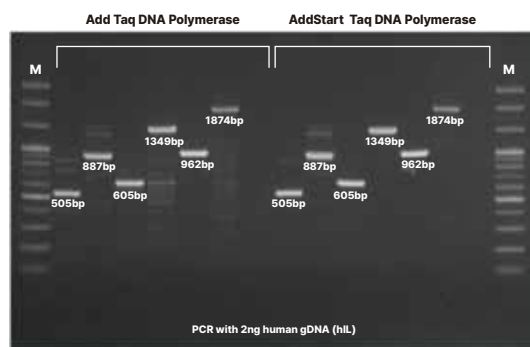
**Description :** AddStart Taq DNA Polymerase has bounded a unique monoclonal anti-Taq antibody that is specific to normal Taq DNA Polymerase. This unique feature of hot-start Taq DNA Polymerase product allows for minimal primer dimers and nonspecific amplification reactions and maximizing the amplification efficiency of the target gene region. AddStart Taq DNA Polymerase possesses 5'→3' exonuclease activity and very weak 3'→5' exonuclease activity. Additionally, since an A-tail is formed at the 3' end of the amplified DNA, a T-vector can be used for cloning using the amplification product. When utilizing AddStart Taq DNA Polymerase for PCR, 5 kb or less of amplification products can be obtained under standard PCR conditions. It is also suitable for multiplex PCR that can amplify 5 or fewer targets simultaneously. The 10x reaction buffer contains a range of components to maximize the activity of the hot-start Taq DNA Polymerase, along with 20mM MgCl<sub>2</sub>.

## AddStart Taq DNA Master (without or with UDG), 2x conc.

**Product Code :** 36101, 36101U, 36101SS, 36101USS

**Description :** AddStart Taq DNA Master (2x Conc.) is a pre-mixed product of essential components for PCR reactions, including AddStart Taq DNA Polymerase, Reaction Buffer (+Mg), dNTP mixture, gel loading dye (Xylene Cyanol FF), and enzyme stabilizers to maximize customers' convenience. AddStart Taq DNA Master (2x Conc.) ensures the same performance as the manual product and can produce amplification products of up to 5 kb under standard PCR conditions. Additionally, since an A-tail is formed at the 3' end of the amplified DNA, the T-vector can be used for cloning using the amplification product. This product is supplied in two forms of 1.0 mL per screw cap tube (Cat. No. 36101) and 10.0 µl per 8-strip tube (Cat. No. 36101SS). Furthermore, to prevent carryover contamination from amplification products, AddStart Taq DNA Master with UDG includes Uracil-DNA Glycosylase (UDG) and is available in two forms of 1.0 mL per screw cap tube (Cat. No. 36101U) and 10.0 µl per 8-strip tube (Cat. No. 36101USS).

### Performance Data :



Product Name	Product Code	Provided with
AddStart Taq DNA Polymerase	18500	AddStart Taq DNA Polymerase (5 U/µl), 100 µl 10x Reaction Buffer 1.0 mL 10mM dNTP Mix. (2.5 mM each) 1.0 mL
AddStart Taq DNA Master without UDG (2x conc.)	36101 (tube type)	1.0 mL x 5 tubes
	36101SS (8-strip type)	10.0 µl / tube x 96 tests
AddStart Taq DNA Master with UDG (2x conc.)	36101U (tube type)	1.0 mL x 5 tubes
	36101USS (8-strip type)	10.0 µl / tube x 96 tests

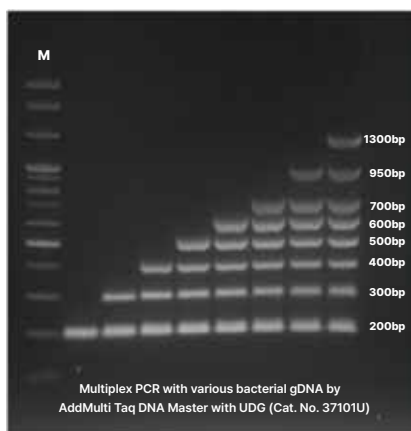
\* For bulk order and customized specifications, please inquire separately.

## AddMulti Taq DNA Master (without or with UDG), 2x conc.

**Product Code :** 37101, 37101U, 37101SS, 37101USS

**Description :** AddMulti Taq DNA Master (2x Conc.) is a pre-mixed product suitable for Multiplex PCR in which ingredients essential for PCR reactions, including AddStart Taq DNA Polymerase, Reaction Buffer (+Mg), dNTP mixture, gel loading dye (Xylene Cyanol FF), and enzyme stabilizers, are combined. This reagent is designed to enable the amplification of five or more target genes simultaneously in Multiplex PCR. AddMulti Taq DNA Master (2x Conc.) can obtain a range of targets from 100 bp to 3 kb under standard PCR conditions. AddMulti Taq DNA Master is supplied in the form of 1.0 mL per screw cap tube (Cat. No. 37101) and 10.0 µl per 8-strip tube (Cat. No. 37101SS). Furthermore, to prevent carryover contamination from amplification products, AddMulti Taq DNA Master with UDG includes Uracil-DNA Glycosylase (UDG) and is available in two forms of 1.0 mL per screw cap tube (Cat. No. 36101U) and 10.0 µl per 8-strip tube (Cat. No. 36101USS).

### Performance Data :



Product Name	Product Code	Provided with
AddMulti Taq DNA Master without UDG (2x conc.)	37101 (tube type)	1.0 mL x 5 tubes
	37101SS (8-strip type)	10.0 µl / tube x 96 tests
AddMulti Taq DNA Master with UDG (2x conc.)	37101U (tube type)	1.0 mL x 5 tubes
	37101USS (8-strip type)	10.0 µl / tube x 96 tests

\* For bulk order and customized specifications, please inquire separately.



## AddStart HP Taq DNA Polymerase

**Product Code :** 19101

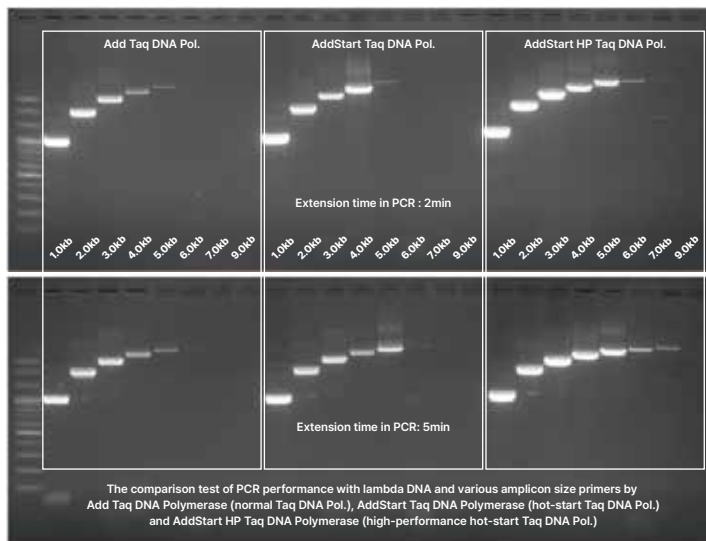
**Description :** AddStart HP Taq DNA Polymerase has high-performance amplification efficiency using hot-start fusion Taq DNA Polymerase. In addition, as a hot-start Taq DNA Polymerase combined with an monoclonal anti-Taq antibody, it can minimize primer dimers and non-specific amplification reactions and maximize the amplification efficiency of the target gene. AddStart HP Taq DNA Polymerase possesses 5'→3' exonuclease activity and very weak 3'→5' exonuclease activity. Additionally, since an A-tail is formed at the 3' end of the amplified DNA, a T-vector can be used for cloning using the amplification product. When utilizing AddStart HP Taq DNA Polymerase for PCR, 10 kb or less of amplification products can be obtained, and it is suitable for multiplex PCR, enabling the amplification of up to five targets simultaneously. The 10x reaction buffer contains various components to maximize the activity of the hot-start fusion Taq DNA Polymerase, along with 20 mM MgCl<sub>2</sub>.

## AddStart HP Taq DNA Master, 2x conc.

**Product Code :** 38101, 38101SS

**Description :** AddStart HP Taq DNA Master (2x Conc.) is a pre-mixed product containing all essential components for PCR reactions, including AddStart HP Taq DNA Polymerase, Reaction Buffer (+Mg), dNTP mixture, gel loading dye (Xylene Cyanol FF), and enzyme stabilizers, are combined. AddStart HP Taq DNA Master (2x Conc.) ensures the same performance as the manual product and can produce 10 kb or less amplification products. Additionally, since an A-tail is formed at the 3' end of the amplified DNA, a T-vector can be used for cloning using the amplification product. AddStart HP Taq DNA Master is supplied in two forms of 1.0 mL per screw cap tube (Cat. No. 38101) and 10.0 µl per 8-strip tube (Cat. No. 38101SS).

### Performance Data :



Product Name	Product Code	Provided with
AddStart HP Taq DNA Polymerase	19101	AddStart HP Taq DNA Polymerase (5 U/µl), 100 µl 10x Reaction Buffer 1.0 mL 10mM dNTP Mix. (2.5 mM each) 1.0 mL
AddStart HP Taq DNA Master (2x conc.)	38101 (tube type)	1.0 mL x 5 tubes
	38101SS (8-strip type)	10.0 µl / tube x 96 tests

\* For bulk order and customized specifications, please inquire separately.

## Reverse Transcription

- **cDNA Synthesis**  
AddScript cDNA Synthesis Kit
- **One-step RT-PCR**  
AddScript RT-PCR Master (2x conc.)



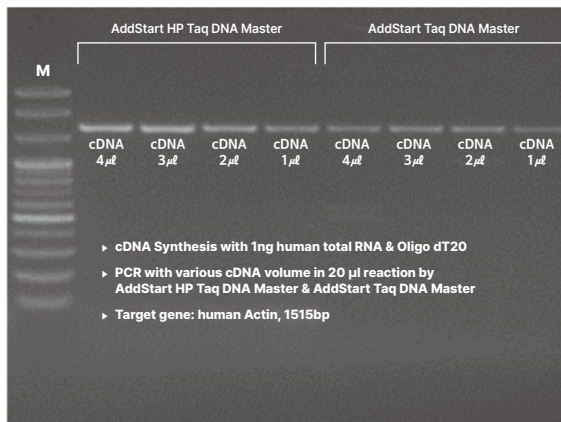
## AddScript cDNA Synthesis Kit

**Product Code :** 22701

**Description :** The AddScript cDNA Synthesis Kit is a product containing components that can synthesize cDNA from RNA. This product consists of Enzyme Solution, Reaction Buffer, dNTP mixture, Oligo dT, and Random Hexamer. The Enzyme Solution contains thermostable MMLV Reverse Transcriptase (RNaseH-) and RNase Inhibitor. When synthesizing cDNA using the AddScript cDNA Synthesis Kit, it is possible to synthesize up to approximately 3 kb. While performing PCR using the cDNA, cDNA can be added up to 30% of the PCR volume without any issues with reactivity when using our AddStart Taq DNA Polymerase and AddStart Taq Master (2x conc.).

- Applications :**
- First - strand cDNA synthesis
  - cDNA library construction
  - Gene expression analysis

### Performance Data :



Product Name	Product Code	Provided with
AddScript cDNA Synthesis Kit	22701	20x Enzyme Solution 50 µl 5x Reaction Buffer 0.2 mL 10mM dNTP Mix. (2.5 mM each) 0.1 mL 10x Oligo dT20 0.1 mL 10x Random Hexamer 0.1 mL Nuclease-free Water 1.0 mL

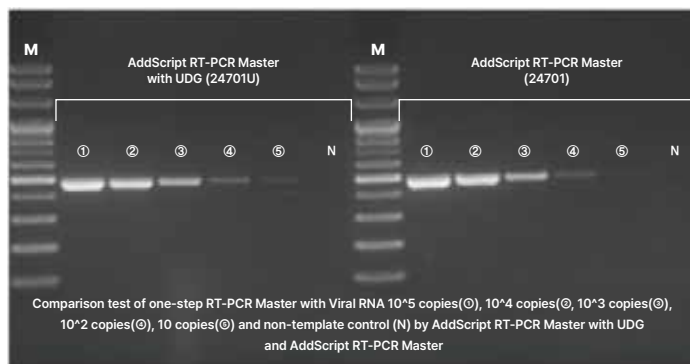
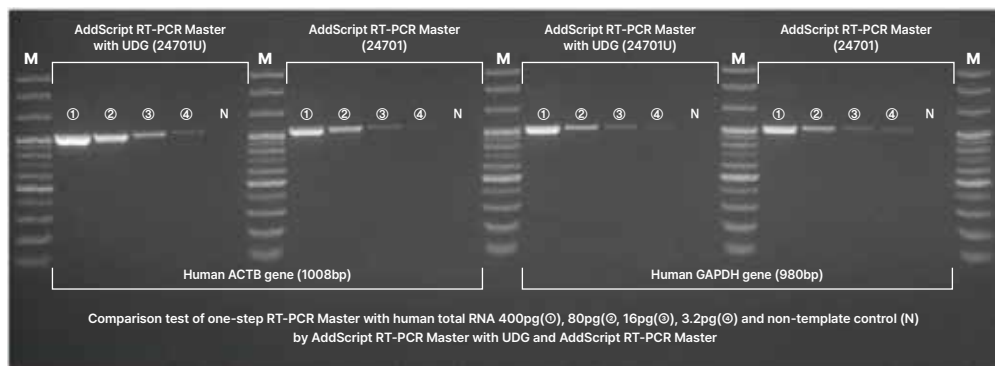
\* For bulk order and customized specifications, please inquire separately.

## AddScript RT-PCR Master (without or with UDG), 2x conc.

**Product Code :** 24701, 24701U, 24701S, 24701US

**Description :** The AddScript RT-PCR Master (2x conc.) is a one-step RT-PCR product that enables simultaneous cDNA synthesis and PCR in a one-tube. The master mixture contains various enzymes and components required for one-step RT-PCR to maximize user convenience. Additionally, the AddScript RT-PCR Master (with UDG, Cat. No. 24701U) includes heat-labile UDG to prevent carryover contamination and lost activity at 25°C. Those allow removing contaminants only without affecting cDNA synthesis. The AddScript RT-PCRq DNA Master is supplied in two forms of 1.0 mL aliquots in screw cap tubes (Cat. No. 24701, 24701U) and 10.0 µl aliquots in 8-strip tubes (Cat. No. 24701S, 24701US).

### Performance Data :



Product Name	Product Code	Provided with
AddScript RT-PCR Master without UDG (2x Conc.)	24701 (tube type)	1.0 mL x 5 tubes
	24701S (8-strip type)	10.0 µl / tube x 96 tests
AddScript RT-PCR Master with UDG (2x conc.)	24701U (tube type)	1.0 mL x 5 tubes
	24701US (8-strip type)	10.0 µl / tube x 96 tests

\* For bulk order and customized specifications, please inquire separately.

## Real-time PCR Master Mix.

- **Real-time PCR (Intercalating Dye)**  
AddGreen qPCR Master (2x conc.)  
AddGreen RT-qPCR Master (2x conc.)
- **Normal Real-time PCR (TaqMan Probe)**  
AddProbe qPCR Master (2x conc.)  
AddProbe RT-qPCR Master (2x conc.)
- **Fast Real-time PCR (TaqMan Probe)**  
AddFast qPCR Master (2x conc.)  
AddFast RT-qPCR Master (2x conc.)
- **Melting Analysis (FMCA)**  
AddMelt qPCR Master with UDG (2x conc.)  
AddMelt RT-qPCR Master with UDG (2x conc.)

### AddGreen qPCR Master, 2x conc.

**Product Code :** 72501

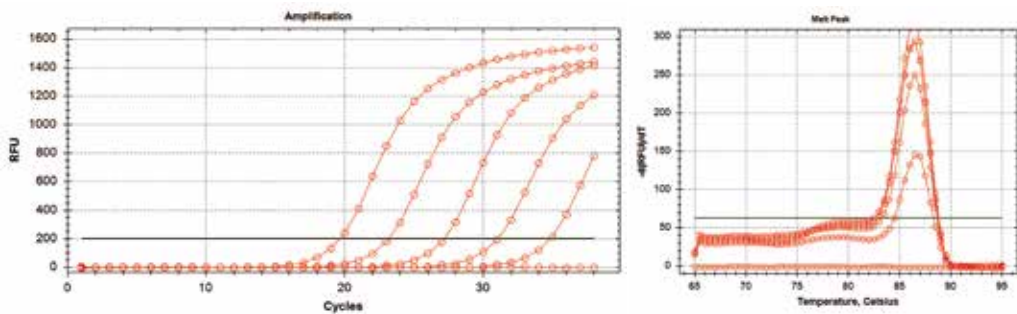
**Description :** The AddGreen qPCR Master is a specialized product for real-time PCR that uses an intercalating dye. This product contains hot-start Taq DNA Polymerase, AddGreen I dye, dNTP mixture, and other components required for PCR. In particular, the amplification efficiency is outstanding by incorporating AddStart Taq DNA Polymerase and buffer components optimized for real-time PCR. In addition, the maximized specificity allows minimize amplification by primer dimers and non-specific reactions.

### AddGreen RT-qPCR Master, 2x conc.

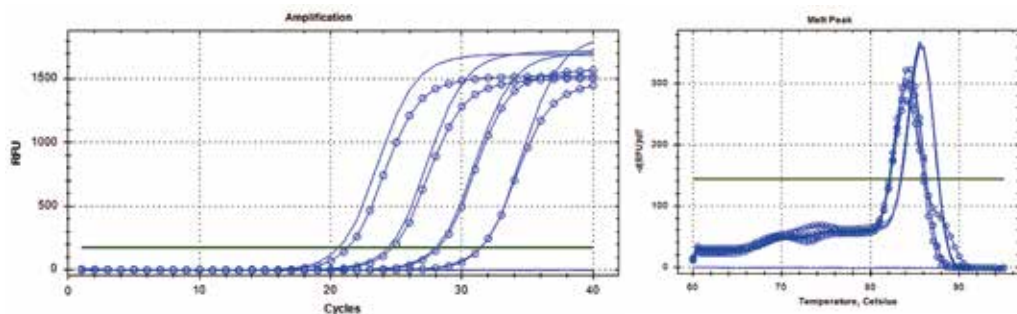
**Product Code :** 71302

**Description :** The AddGreen RT-qPCR Master is a product exclusively for one-step real-time RT-PCR that utilizes an intercalating dye. The master mixture contains various enzymes and a range of components required for one-step real-time RT-PCR to maximize user convenience.

**Performance Data :**



Real-time PCR with bacterial gDNA (10<sup>5</sup>, 10<sup>4</sup>, 10<sup>3</sup>, 10<sup>2</sup> and 10 copies) by AddGreen qPCR Master



Real-time one-step RT-qPCR with human total RNA(2ng, 200pg, 20pg and 2pg) and human housekeeping gene (GAPDH(-) and ACTB(O) by AddGreen RT-qPCR Master

Product Name	Product Code	Provided with
AddGreen qPCR Master (2x conc.)	72501	1.0 mL x 1 tube
AddGreen RT-qPCR Master (2x conc.)	71302	1.0 mL x 1 tube

\* For bulk orders, inclusion of ROX dye, or customization of specifications, please inquire separately.

## AddProbe qPCR Master (without or with UDG), 2x conc.

**Product Code:** 72401, 72401U

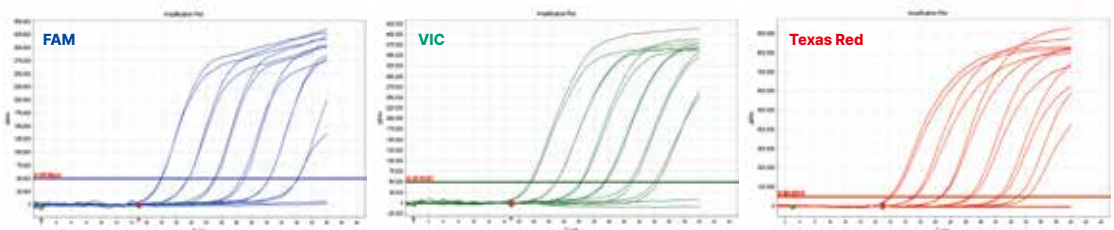
**Description:** The AddProbe qPCR Master is a product exclusively for real-time PCR that utilizes a fluorescence probe (TaqMan Probe). This product contains hot-start Taq DNA Polymerase, dNTP mixture, and other components necessary for real-time PCR. Particularly, the amplification efficiency is outstanding by incorporating AddStart Taq DNA Polymerase and buffer components optimized for real-time PCR. As the AddProbe qPCR Master with UDG includes Uracil-DNA Glycosylase (UDG) to prevent carryover contamination from amplification products, it is suitable for molecular diagnostic applications.

## AddProbe RT-qPCR Master (without or with UDG), 2x conc.

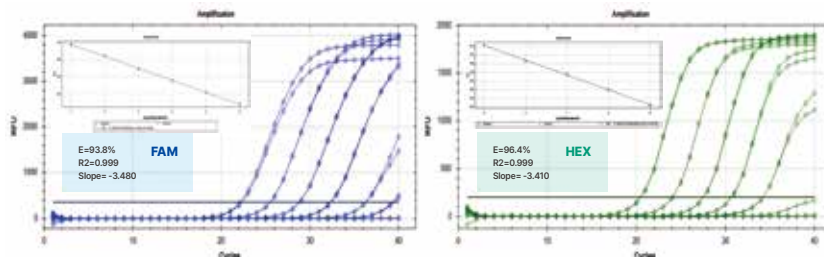
**Product Code:** 74201, 74201U

**Description:** AddProbe RT-qPCR Master is a product exclusively for real-time PCR using a fluorescence probe (TaqMan Probe). This product contains various enzymes and components necessary for one-step RT-qPCR, including hot-start Taq DNA Polymerase, Reverse Transcriptase (RNaseH-), RNase inhibitor, and other PCR-related components to maximize user convenience. Additionally, The AddProbe RT-qPCR Master with UDG includes heat-labile Uracil-DNA Glycosylase (UDG) to prevent carryover contamination and lost activity at 25°C. Those allow removing contaminants only without affecting cDNA synthesis and make it suitable for molecular diagnostic applications.

### Performance Data :



Multi-plex Real-time PCR with bacterial gDNA ( $5 \times 10^5$ ,  $5 \times 10^4$ ,  $5 \times 10^3$ ,  $5 \times 10^2$  and 50 copies)  
by AddProbe qPCR Master with UDG (Cat. No. 72401U)



Quantitative multi-plex Real-time RT-qPCR with viral RNA ( $10^6$ ,  $10^5$ ,  $10^4$ ,  $10^3$ ,  $10^2$  and 10 copies)  
by AddProbe RT-qPCR Master with UDG (Cat. No. 74201U)

Product Name	Product Code	Provided with
AddProbe qPCR Master (2x conc.)	72401	1.0 mL x 1 tube
AddProbe qPCR Master with UDG (2x conc.)	72401U	1.0 mL x 1 tube
AddProbe RT-qPCR Master (2x conc.)	74201	1.0 mL x 1 tube
AddProbe RT-qPCR Master with UDG (2x conc.)	74201U	1.0 mL x 1 tube

\* For bulk orders, inclusion of ROX dye, or customization of specifications, please inquire separately.

### AddFast qPCR Master (without or with UDG), 2x conc.

**Product Code :** 72401TN, 72401TNU

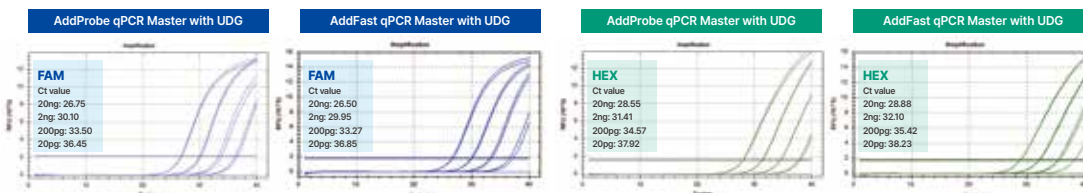
**Description :** AddFast qPCR Master is a product exclusive for fast real-time PCR using a fluorescence probe (TaqMan Probe). This product contains hot-start Taq DNA Polymerase, dNTP mixture, and other components necessary for PCR. Particularly, the amplification speed and efficiency are outstanding by incorporating additives for Fast qPCR and buffer components optimized for real-time PCR. And results can be obtained within approximately 40-50 minutes. As the AddFast qPCR Master with UDG includes Uracil-DNA Glycosylase (UDG) to prevent carryover contamination from amplification products, it is suitable for molecular diagnostic applications.

### AddFast RT-qPCR Master (without or with UDG), 2x conc.

**Product Code :** 74201TN, 74201TNU

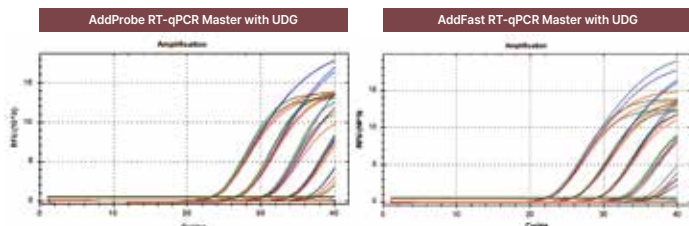
**Description :** The AddFast RT-qPCR Master is an exclusive product for fast real-time PCR that utilizes a fluorescence probe (TaqMan Probe). This product contains various enzymes and components necessary for one-step RT-qPCR, including hot-start Taq DNA Polymerase, Reverse Transcriptase (RNase H-), RNase inhibitor, and other PCR-related components to maximize user convenience. In particular, amplification speed and efficiency are outstanding by incorporating additives for Fast RT-qPCR and buffer components optimized for real-time PCR. And results can be obtained within approximately 50 minutes to 1 hour. The AddFast RT-qPCR Master with UDG includes heat-labile Uracil-DNA Glycosylase (UDG) to prevent carryover contamination from amplification products and lost activity at 25°C. Those allow removing contaminants without affecting cDNA synthesis and make it suitable for molecular diagnostic applications.

**Performance Data :**



Comparison test of AddProbe qPCR Master with UDG (Cat. No. 72401U) and AddFast qPCR Master with UDG (Cat. No.72401TNU) with human gDNA (20ng, 2ng, 200pg, 20pg) by multi-plex Real-time PCR

- PCR condition of AddProbe qPCR Master: 95°C 10 min, 95 °C 10 sec → 60 °C 30sec (40 cycles), total running time: 1hr 10min
- PCR condition of AddFast qPCR Master: 95°C 3 min, 95 °C 1 sec → 60 °C 3sec (40 cycles), total running time: 40min



Comparison test of AddProbe RT-qPCR Master with UDG (Cat. No. 74201U) and AddFast RT-qPCR Master with UDG (Cat. No.74201TNU) with viral RNA 5x10<sup>5</sup>, 5x10<sup>4</sup>, 5x10<sup>3</sup>, 5x10<sup>2</sup> and 50 copies) by multi-plex Real-time PCR

- Fluorescence dye: blue line – FAM, green line – HEX, red line: Texas Red
- RT-PCR condition of AddProbe RT-qPCR Master: 50 °C 20 min, 95°C 10 min, 95 °C 25 sec → 60 °C 50sec (40 cycles), total running time: 1hr 48min
- RT-PCR condition of AddFast RT-qPCR Master: 55 °C 5 min, 95°C 3 min, 95 °C 5 sec → 60 °C 10sec (40 cycles), total running time: 1hr 8min

Product Name	Product Code	Provided with
AddFast qPCR Master (2x conc.)	72401TN	1.0 mL x 1 tube
AddFast qPCR Master with UDG (2x conc.)	72401TNU	1.0 mL x 1 tube
AddFast RT-qPCR Master (2x conc.)	74201TN	1.0 mL x 1 tube
AddFast RT-qPCR Master with UDG (2x conc.)	74201TNU	1.0 mL x 1 tube

\* For bulk orders, inclusion of ROX dye, or customization of specifications, please inquire separately.



## AddMelt qPCR Master with UDG, 2x conc.

**Product Code :** 72401M

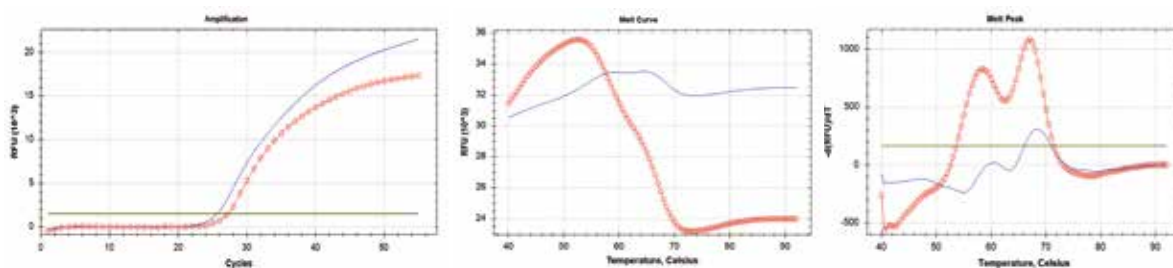
**Description :** The AddMelt qPCR Master with UDG is an exclusive product for fluorescence melting curve analysis (FMCA) applications. This product contains hot-start Taq DNA Polymerase, dNTP mixture, and components optimized for FMCA. After PCR amplification, this master mix allows for easy melting curve analysis and can be applied to multiplex FMCA applications. The product contains Uracil-DNA Glycosylase (UDG) to prevent carryover contamination from amplification products.

## AddMelt RT-qPCR Master with UDG, 2x conc.

**Product Code :** 74201M

**Description :** The AddMelt RT-qPCR Master with UDG is an exclusive product for fluorescence melting curve analysis (FMCA) applications. This product contains various enzymes necessary for one-step RT-qPCR, including hot-start Taq DNA Polymerase, Reverse Transcriptase (RNase H-), RNase inhibitor, and components optimized for FMCA to maximize user convenience. This product contains heat-labile Uracil-DNA Glycosylase (UDG) to prevent carryover contamination from amplification products and lost activity at 25°C. Those allow removing contaminants without affecting cDNA synthesis.

### Performance Data :



Comparison test of Fluorescence Melting Curve Analysis (FMCA) with human gDNA and two primer/probe(HEX) set for 2 targets detection between Normal qPCR Master (Competitor, blue line) and AddMelt qPCR Master(Addbiomeditek Co., red circle line)

Product Name	Product Code	Provided with
AddMelt qPCR Master with UDG (2x conc.)	72401M	1.0 mL x 1 tube
AddMelt RT-qPCR Master with UDG (2x conc.)	74201M	1.0 mL x 1 tube

\* For bulk orders, inclusion of ROX dye, or customization of specifications, please inquire separately.

## Sample Preparation (Spin column)

- **Plasmid Extraction and Fragment Purification**

- AddPrep Plasmid Extraction Kit
- AddPrep PCR Purification Kit
- AddPrep Gel Purification Kit
- AddPrep Fragment Purification Kit

- **Genomic DNA Extraction**

- AddPrep Blood Genomic DNA Extraction Kit
- AddPrep Swab Genomic DNA Extraction Kit
- AddPrep Tissue Genomic DNA Extraction Kit
- AddPrep Plant Genomic DNA Extraction Kit
- AddPrep Bacterial Genomic DNA Extraction Kit
- AddPrep Soil Genomic DNA Extraction Kit

- **RNA Extraction**

- AddPrep Total RNA Extraction Kit
- AddPrep Viral Nucleic Acid Extraction Kit

## AddPrep Plasmid Extraction Kit, 100 prep.

**Product Code :** 10010

**Size :** 100 prep.

**Description :** The AddPrep Plasmid Extraction Kit is a product designed for easy and rapid extraction of plasmids from bacterial cells. By using this kit, the plasmid can be extracted up to 20 µg from 1 to 5 ml of culture.

### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column	100 ea	Optional	32 ml
Resuspension	30 ml	Washing	15 ml
Lysis	30 ml	Elution	20 ml
Neutralization	40 ml	RNase A (10 mg/ml)	0.3 ml

## AddPrep PCR Purification Kit, 100 prep.

**Product Code :** 10078

**Size :** 100 prep.

**Description :** The AddPrep PCR Purification Kit is a product designed for easy and rapid extraction of DNA from PCR amplification products and enzyme reaction products. By using this kit to purify reaction products, the purification efficiency is approximately 80-90%, and the purified product can be used for a range of experiments such as cloning and sequencing.

### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column	100 ea	Washing	15 ml
Binding	50 ml	Elution	20 ml

## AddPrep Gel Purification Kit, 100 prep.

**Product Code :** 10098

**Size :** 100 prep.

**Description :** The AddPrep Gel Purification Kit is a product designed for easy and rapid extraction of DNA from agarose gel slices. By using this kit to purify products, the purification efficiency is approximately 50-80%, and the purified product can be used for a range of experiments such as cloning and sequencing.

### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column	100 ea	Washing	15 ml
Binding	60 ml	Elution	20 ml

## AddPrep Fragment Purification Kit, 100 prep.

**Product Code :** 10088

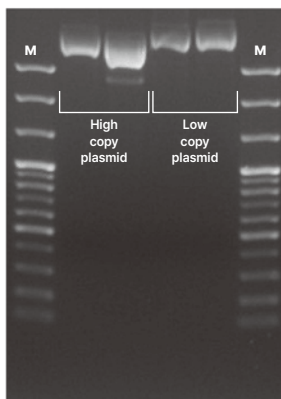
**Size :** 100 prep.

**Description :** The AddPrep Fragment Purification Kit is a product designed for easy and rapid extraction of DNA from PCR amplification products, enzyme reaction products, and agarose gel slices. By using this kit to purify products, the purification efficiency is approximately 50-90%, and the purified DNA can be used for a range of experiments such as cloning and sequencing.

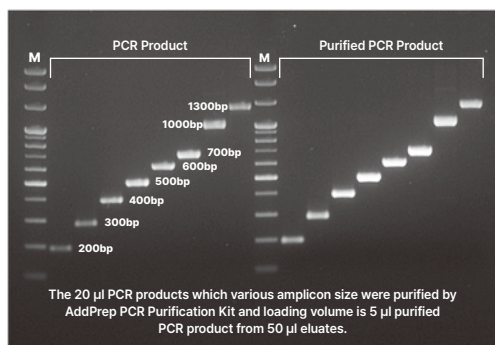
### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column	100 ea	Washing	15 ml
Binding	60 ml	Elution	20 ml

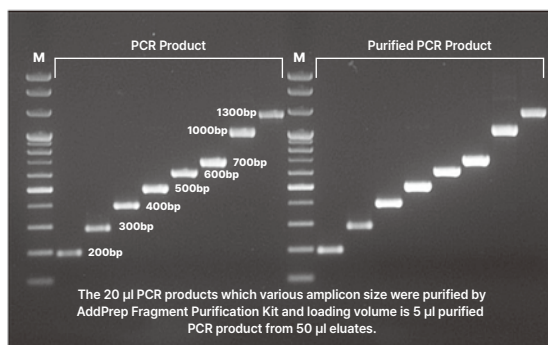
### Performance Data :



Plasmids was extracted from 3ml overnight cultured recombinant E. coli by AddPrep Plasmid DNA Extraction Kit and loading volume is 2 µl extracted plasmid from 100 µl eluates.



The 20 µl PCR products which various amplicon size were purified by AddPrep PCR Purification Kit and loading volume is 5 µl purified PCR product from 50 µl eluates.



The 20 µl PCR products which various amplicon size were purified by AddPrep Fragment Purification Kit and loading volume is 5 µl purified PCR product from 50 µl eluates.

Product Name	Product Code	Provided with
AddPrep Plasmid Extraction Kit	10010	100 prep.
AddPrep PCR Purification Kit	10078	100 prep.
AddPrep Gel Purification Kit	10098	100 prep.
AddPrep Fragment Purification Kit	10088	100 prep.

## AddPrep Blood Genomic DNA Extraction Kit, 100 prep.

**Product Code :** 10023B

**Size :** 100 prep.

**Description :** The AddPrep Blood Genomic DNA Extraction Kit is a product designed for easy and rapid extraction of genomic DNA from various sources such as whole blood, plasma, serum, and other body fluids. The extracted genomic DNA can be utilized for experiments, including conventional cPCR, qPCR, NGS, and microarray analysis and more.

### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column	100 ea	Binding	25 ml
Washing 1	30 ml	Washing 2	12 ml
Elution	25 ml	Proteinase K (20 mg/ml)	1.2 ml X 2 tubes

## AddPrep Swab Genomic DNA Extraction Kit, 100 prep.

**Product Code :** 10023BS

**Size :** 100 prep.

**Description :** The AddPrep Swab Genomic DNA Extraction Kit is a product designed for easy and rapid extraction of genomic DNA from samples collected using buccal or swabs. The extracted genomic DNA can be used for various experiments, including cPCR, qPCR, NGS, microarray analysis, and more.

### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column	100 ea	Lysis	30 ml
Binding	25 ml	Washing 1	30 ml
Washing 2	12 ml	Elution	25 ml
Proteinase K (20 mg/ml)	1.2 ml X 2 tubes		

## AddPrep Tissue Genomic DNA Extraction Kit, 100 prep.

**Product Code :** 10023T

**Size :** 100 prep.

**Description :** The AddPrep Tissue Genomic DNA Extraction Kit is a product designed for easy and rapid extraction of genomic DNA from various samples, including tissue, saliva, mouse tails, cultured cells, and dried blood spots. The extracted genomic DNA can be used for a range of experiments, including cPCR, qPCR, NGS, and microarray analysis, and more.

### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column	100 ea	Lysis	30 ml
Binding	25 ml	Washing 1	30 ml
Washing 2	12 ml	Elution	25 ml
Proteinase K (20 mg/ml)	1.2 ml X 2 tubes		

## AddPrep Plant Genomic DNA Extraction Kit, 100 prep.

**Product Code :** 10023P

**Size :** 100 prep.

**Description :** The AddPrep Plant Genomic DNA Extraction Kit is a product designed for easy and rapid extraction of genomic DNA from various plant samples, including leaf, fruits, root and processed food for GMO detection. The extracted genomic DNA can be used for a range of experiments, including cPCR, qPCR, NGS, and microarray analysis, and more.

### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column	100 ea	Lysis	30 ml
Precipitation	20 ml	Binding	25 ml
Washing 1	30 ml	Washing 2	12 ml
Elution	25 ml	Proteinase K (20 mg/ml)	1.2 ml X 2 tubes

## AddPrep Bacterial Genomic DNA Extraction Kit, 100 prep.

**Product Code :** 10027

**Size :** 100 prep.

**Description :** The AddPrep Bacterial Genomic DNA Extraction Kit is a product designed for easy and rapid extraction of genomic DNA, ranging from 5 to 15 µg, using the culture medium of Gram-positive and Gram-negative bacteria such as *Escherichia cell*, *Bacillus spp.*, and *Staphylococcus spp.* The extracted genomic DNA with this product can be used for various molecular biology experiments, such as cPCR and qPCR.

### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column	100 ea	Lysis	25 ml
Binding	25 ml	Washing 1	30 ml
Washing 2	12 ml	Elution	25 ml
Lysozyme Buffer	55 ml	Lysozyme Solution (50 mg/ml)	1.2 ml X 2 tubes
Proteinase K (20 mg/ml)	1.2 ml X 2 tubes		

## AddPrep Soil Genomic DNA Extraction Kit, 100 prep.

**Product Code :** 10056

**Size :** 100 prep.

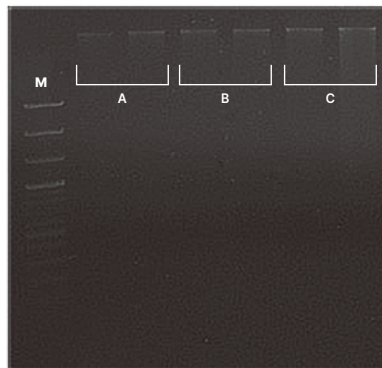
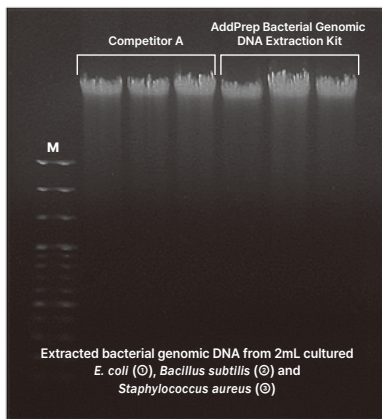
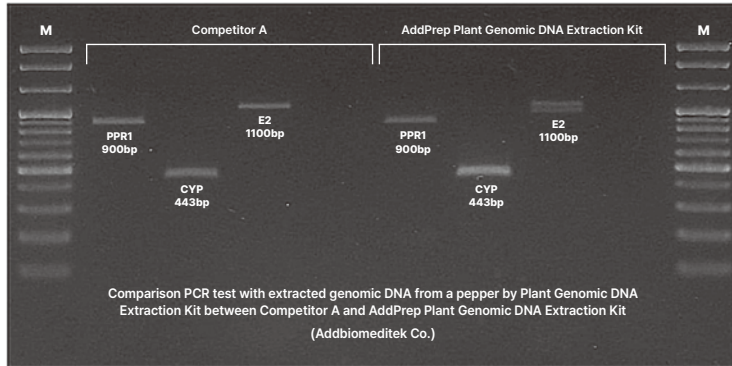
**Description :** The AddPrep Soil Genomic DNA Extraction Kit is a product designed for the rapid and effective isolation and extraction of genomic DNA from various microorganisms present in the soil, including *Bacillus spp.*, fungi, actinomycetes, algae, and archaea. Using this kit, up to 20 µg of genomic DNA can be extracted from about 100 to 500 mg of soil sample. The extracted genomic DNA can be applied in experiments such as cPCR, qPCR, NGS, metagenomics, and more.

### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column	100 ea	Lysis	55 ml
Precipitation	22 ml	Binding	32 ml
Washing 1	30 ml	Washing 2	12 ml
Elution	25 ml	Lysozyme Buffer	55 ml
Lysozyme Solution (50 mg/ml)	1.2 ml X 2 tubes	Proteinase K (20 mg/ml)	1.2 ml X 2 tubes



**Performance Data :**



Total DNA was purified from 100mg soil samples by three different soil DNA Extraction Kits and 5 µl extracted gDNA from 100 µl eluates.

- Lane A: Competitor A
- Lane B: Competitor B
- Lane C: AddPrep Soil Genomic DNA Extraction Kit

Product Name	Product Code	Provided with
AddPrep Blood Genomic DNA Extraction Kit	10023B	100 prep.
AddPrep Swab Genomic DNA Extraction Kit	10023BS	100 prep.
AddPrep Tissue Genomic DNA Extraction Kit	10023T	100 prep.
AddPrep Plant Genomic DNA Extraction Kit	10023P	100 prep.
AddPrep Bacterial Genomic DNA Extraction Kit	10027	100 prep.
AddPrep Soil Genomic DNA Extraction Kit	10056	100 prep.

## AddPrep Total RNA Extraction Kit, 50 prep.

**Product Code :** 10119

**Size :** 50 prep.

**Description :** The AddPrep Total RNA Extraction Kit is a product designed for the extraction of RNA from various samples, including whole blood, animal tissue, mammalian cells, biological fluids, and plant tissue. When extracted using this kit, 5 ~30 µg of total RNA can be extracted. Additionally, by adding a process for removing DNA during the RNA extraction process, this kit allows to obtain DNA-free RNA. The total RNA extracted with this product can be applied in various molecular biology experiments, such as RT-PCR and RT-qPCR.

### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column 1 (White ring)	50 ea	Spin column 2 (Green ring)	50 ea
Blood Lysis	75 ml	Lysis	25 ml
Binding	50 ml	Washing 1	30 ml
Washing 2	10 ml	Elution	25 ml
DNase I Reaction Buffer	1.0 ml x 3 tubes	Proteinase K (20 mg/ml)	1.2 ml x 1 tube
DNase I (1 U/µl)	0.5 ml x 1 tube		

## AddPrep Viral Nucleic Acid Extraction Kit, 100 prep.

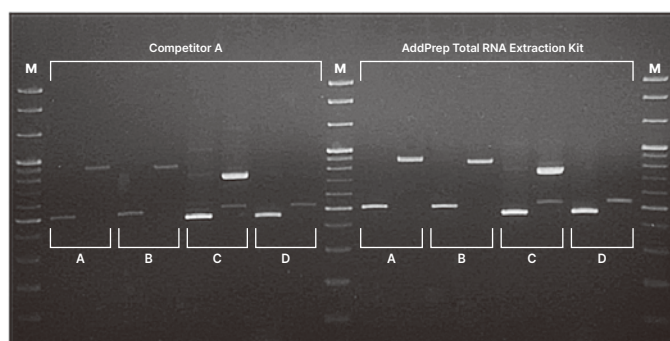
**Product Code :** 10034

**Size :** 100 prep.

**Description :** The AddPrep Viral Nucleic Acid Extraction Kit is a product designed for the extraction of viral RNA and DNA from various sources such as plasma, serum, cell-free body fluids, cell-culture supernatant, and virus-infected samples. The viral nucleic acid extracted with this kit can be applied in various molecular biology experiments, such as cPCR, RT-PCR, RT-qPCR, cDNA synthesis, and more.

### Kit Components

Solution & Material	Size	Solution & Material	Size
Spin column	100 ea	Lysis	40 ml
Washing 1	30 ml	Washing 2	12 ml
Elution	20 ml		



Human total RNA was purified from 200 µl whole blood sample by two different Total RNA Extraction Kits. A one-step RT-PCR was performed with 1 µl of 10-fold diluted eluate as RT-PCR template, various primers using AddScript RT-PCR Master (Addbiomeditek. Co.)

Lane A: human ACTB (505bp, 890bp)

Lane B: human HPRT (502bp, 863bp)

Lane C: human TUBB (450bp, 743bp)

Lane D: human IL (460bp, 535bp)

Product Name	Product Code	Provided with
AddPrep Total RNA Extraction Kit	10119	50 prep.
AddPrep Viral Nucleic Acid Extraction Kit	10034	100 prep.

**AddBioMediTek** strives to provide the finest solutions for molecular biology and molecular diagnostics.

### Reagent Development

- Development of molecular biology reagents applicable to rapidly changing molecular diagnostic paradigms
- Development of various research and diagnostic reagents to meet the diversifying customer needs

### Establishment of a Reliable Development and Production System

- ISO 13485 Quality System Certification
- Bio - Safety Level 2 (LMO safety management level 2 research facility for testing and research)

### Collaboration in Research and Development

- Research service and collaborative research and development utilizing an in-house research pool
- Development of customized reagents that meet customer needs

**AddBioMediTek**, striving for innovation beyond universality, is always with you.



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BEYOND INNOVATION**

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