

# PRODUCT CATALOGUE

**Welcome to**  
[www.intronbio.com](http://www.intronbio.com)



# Where Vision Meets Innovation



iNtRON Bio has been focusing on the R&BD investment since its foundation and accelerates development speed after the IPO in KOSDAQ.

We are aiming for the global R&BD company and promoting the value of the company focused on the Diagnostics, Resources and Molecular reagents. iNtRON's production system is certified by ISO9001:14000, ISO13485:GMP System and effectively supports product quality and manufacturing consistency.



## 1 Relief & Belief

We keep going on thinking about realizing products that customers can use our products with relief and belief.

## 2 Core Competency

We think and judge everything flexibly in order to secure core competencies and competitiveness advantages. "The passion is the freedom."

## 3 3S Simple·Superior·Straightforward

We aim to create real customer value through straightforward, simple and superior technology.

## 4 Sustainability

We are constantly innovating to achieve sustainable growth in life science.

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## ❖ Extraction Products

### Genomic DNA

**G-spin™ Total DNA Extraction Mini Kit**  
Cat. No. 17045 (50 col.) / 17046 (200 col.)

Extract high-yield, high-purity DNA from various samples

### Viral DNA/RNA

**Patho Gene-spin™ DNA/RNA Extraction Kit**  
Cat. No. 17154 (50 col.) / 17154.2 (200 col.)

Easily and quickly extract DNA/RNA from various pathogenic samples

### PCR & Gel Elution

**MEGAquick-spin™ Plus Total Fragment DNA Purification Kit**  
Cat. No. 17290 (200 col.)

Clean-up of DNA fragments ranging from 65bp to 20kb, including agarose gel and PCR

### Auto Prep

**Miracle-AutoXT Automated Nucleic Acid Extraction System**  
Cat. No. IMC-NC15PLUS

FDA, CE-IVD, MFDS Certificate No. 17-610

### Auto Prep

**FaSTARprep96 Automated Nucleic Acid Extraction System**  
Cat. No. IMC-FAST-P96D

Process up to 96 samples, within 20 minutes

### NGS

**easy-spin™ Total RNA Extraction Kit**  
Cat. No. 17221 (50 col.)

High yield and high purity total RNA extraction (RIN value 8.0 or higher)

## ❖ Amplification Products

### PCR System

**FaSTARamp96 Real-time PCR System**  
Cat. No. IMC-FAST-A96

96 Wells & 5-Target multiplexing equipment

### 2X Master Mix

**2X PCR Master mix Solution (i-StarTaq)**  
Cat. No. 25166 (0.5 ml x 2 vials)

PCR reaction volume adjustable with a Master mix type

### PCR Premix

**Maxime™ PCR PreMix (i-StarTaq)**  
Cat. No. 25165 (96T) / 25167 (480T)

Dried & aliquoted PreMix, All-in-one products

### cDNA synthesis

**Maxime™ RT PreMix (Oligo dT Primer)**  
Cat. No. 25081 (96T)

Dried & aliquoted RT PreMix Kit / cDNA synthesis from a variety of RNAs by oligo dT15 primers

### RT-PCR Premix

**Maxime™ RT-PCR PreMix**  
Cat. No. 25131 (96 Tubes)

Dried & aliquoted RT-PCR PreMix Kit for ONE-STEP RT-PCR

### Real-time PCR

**RealMOD™ Probe R<sup>2</sup> 2X qRT-PCR mix (with UDG)**  
Cat. No. 25362.100 (100 rxn.) / 25362.500 (500 rxn.)

Real-time RT-PCR reaction volume control with 2X MasterMix type / Minimize cross contamination by applying UDG

## ❖ Other Products

### Electrophoresis

**RedSafe™ Nucleic Acid Staining Solution**  
Cat. No. 21141 (1 ml)

Safe nucleic acid staining reagent / Substitute for EtBr

### Protein

**GangNam-STAIN™ Prestained Protein Ladder**  
Cat. No. 24052 (250 µl)

Broad protein marker with 12 bands in the range of 10-245 kDa

### Mycoplasma

**e-Myc™ VALiD Mycoplasma PCR Detection Kit**  
Cat. No. 25239 (48 Tests)

High sensitivity (10 cfu/ml) level as an alternative to the direct method

## ❖ Automated Nucleic Acid Extraction System



### Miracle-AutoXT Automated Nucleic Acid Extraction System

Miracle-AutoXT and its dedicated extraction kit, the AutoXT PGS DNA/RNA Kit, have successfully completed FDA medical device registration under LiliF Diagnostics, Korea's leading diagnostic brand. Miracle-AutoXT is an automated nucleic acid extraction system utilizing Magnetic Bead technology, designed for minimal noise and vibration during operation. Its compact size (340×420×345 mm) maximizes space efficiency. Additionally, it features optimized protocols for various sample types, a Test Mode Service, a Heating Block, and a UV lamp, ensuring optimal reactions between samples and reagents for easy extraction of high-purity, high-yield nucleic acids.

Parameter	Specification
Method	Bead Method
Number of Sample	Up to 32
Processing Time	20-45 Minutes
Touch Monitor	7" inch
Convenience Function	Self Test & USB Update
Input Power Universal Supply	100~240VAC, 50-60Hz, 1.5A
Output Power	+24VDC +3% (150W Maximum)
Power Supply	UL/CSA/CE Approved Universal Power Supply with IEC Connection
Physical Dimension	340 × 420 × 345mm (13.88×16.53×13.58 inch)
Weight	24 kg
Operating Temperature	10°C to 40°C (50°F to 104°F)
Relative Humidity	30% to 85% R.H. Non-Condensing
UV Lamp	Life Time 4800 Hours

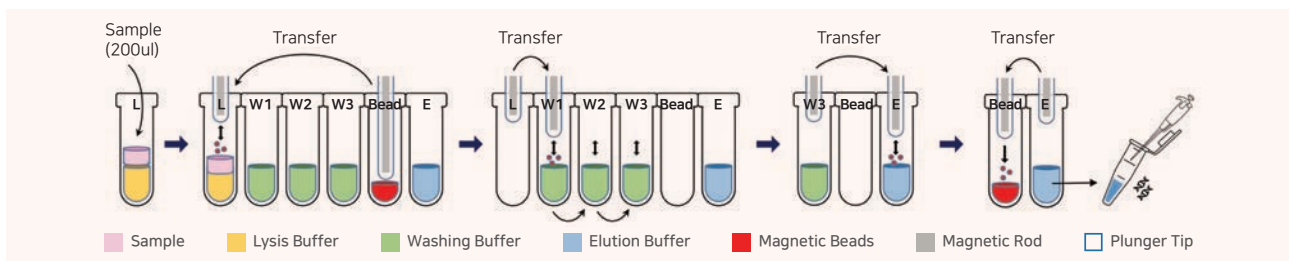


#### Magnetic Plate

When the work is done, put the plate in the magnetic plate. It has a function to increase the purity of the sample because it collects a small amount of magnets contained in the elution buffer.

### Extraction Principle

★ Higher yield/purity results can be secured through 3 washing steps! ★



Product Name	Cat. No.	Size	Type
Miracle-AutoXT Nucleic Acid Extraction System	IMC-NC15PLUS	32 prep	System
AutoXT PGS Virus Extraction Kit	17168-48 / 96	48T / 96T	Individual / Well plate type
AutoXT Total gDNA Extraction Kit	17188-48 / 96	48T / 96T	Individual / Well plate type
AutoXT CLiNiC-Q multi DNA kit	17601-48 / 96	48T / 96T	Individual / Well plate type
AutoXT Plant DNA Kit (I) or (W)	17604-48 / 96	48T / 96T	Individual / Well plate type
AutoXT Plant RNA Kit (I) or (W)	17605-48 / 96	48T / 96T	Individual / Well plate type

## ❖ Real-time PCR System



### FaSTARamp96 Real-time PCR System

Parameter	Specification	
<b>Basic</b>	<b>Model</b>	FaSTARamp96 Real-time PCR System
	<b>Cat. No.</b>	IMC-FAST-A96
	<b>Throughput</b>	96 wells
<b>Optical System</b>	<b>Excitation &amp; Detection</b>	6 Filtered LEDs & 6 Filtered photodiodes
	<b>Channel &amp; Compatible Fluorophores</b>	6 Channel C1 : FAM, SYBR Green I, LC Green, Eva Green, SYTO 9 C2 : HEX, TET, VIC, JOE 3 C3 : Texas Red, ROX C4 : Cy5 C5 : Alexa Fluor 680 C6 : FRET probe (*Operated Independently)
<b>Module</b>	<b>Detection Duration</b>	Detection of 96 wells of all channels completed in 7s
	<b>Lightsource</b>	High-brightness, long-life, maintenance-free LED light source
	<b>Detector</b>	Photodiodes(PDs), excitation, and scan at the top
	<b>Temperature Accuracy</b>	≤ 0.1°C
	<b>Average Heating Ramp</b>	≥ 4.5°C/s
	<b>Max Heating Ramp</b>	≥ 6.1°C/s
	<b>Special Temperature Protocol</b>	Support PCR assays of up to 12 thermal gradients, Long PCR, Touch Down PCR
<b>Function</b>	<b>Control Mode</b>	Stand-alone operation: 10.4-inch touchscreen control Network operation: PC software control via direct connection or LAN (local area network)
	<b>Power Failure Protection</b>	Automatically start running experiments after power supply, no need wait PC software
	<b>Data Storage</b>	Upload and download through USB Disk > 1000 results can be stored in machine
	<b>Reporting Function</b>	Templates reserved, customized experiment report
<b>Others</b>	<b>Power Supply and Consumption</b>	AC 100~240V, 50/60Hz, 900VA
	<b>Dimension(W x L x H) / Weight</b>	350 × 485 × 500mm / 29.4kg
	<b>Suitable Consumables</b>	0.1 & 0.2 ml 96-well plate, 8-tube strips, single-tube strips (transparent, matte, and creamy)
<b>Environment</b>	0.1°C~30°C; 0%~85%, non-condensing; 0m - 2000m, 85.0kPa~106.0kPa	

#### Main Unit Operation

It has a 10.4-inch built-in color touch screen, so it is very easy to operate and can be operated independently of the computer.

#### Independent temperature Control

Optimized PCR is realized through independent temperature control of the heating block and control function with high uniformity.

#### Concealed Hot Lid

It has a constant pressure and a built-in hot lid to prevent dangers that may occur due to direct contact by the user.

#### Power failure protection function

The contents of the experiment in progress are automatically saved when the power is cut off, and the interrupted experiment can be executed continuously when the power is re-applied.

#### PCR Step Mode

It can be performed by providing various PCR step modes such as touchdown, long, gradient and melting step.

#### Network Control

10 units can be connected to one PC at the same time and remotely controlled to realize centralized control.

### Stand-alone Operation of FaSTARamp96

#### Main Interface

Software main interface consists of status bar, menu bar, main operation area and information & shortcut keys.




#### Run Editor

User can set temperature, cycle, reaction system, hot lid and fluorescence in run editor interface.



### Convenient PCR Configuration Setting with Preset Stage

 Preincubation

 2 Step Amplification

 Melting

 Cooling

 Reverse Transcription

 3 Step Amplification

 Continuous Melting

 Custom Stage

## ❖ Automated Nucleic Acid Extraction System



### FaSTARprep96 Automated Nucleic Acid Extraction System / IMC-FAST-P96D

FaSTARprep96 is an automated nucleic acid extraction system classified as an in vitro diagnostic medical device (IVD, License No. 23-1197). It can process up to 96 samples simultaneously and features the latest Rotary Mixing extraction technology, ensuring a high recovery rate of over 98% within 12 minutes. Its user-friendly, customizable software allows anyone to easily and efficiently extract high-purity, high-yield nucleic acids.

**High-efficiency automated equipment! Process 96 samples simultaneously in just 12 minutes!**

#### High Throughput

- Process up to 96 samples simultaneously in 12 minutes
- High bead recovery rate (≥98%)
- No pre- or post-processing required

#### Magnetic Bead Technology

- Magnetic bead and rotational extraction technology applied
- Minimized movement to prevent cross-contamination between Wells
- Optimized for nucleic acid extraction in disease diagnosis experiments

#### Various Function

- Prevention of contamination through HEPA filter & UV lamp
- Optimal reaction induction through heating

#### User Friendly

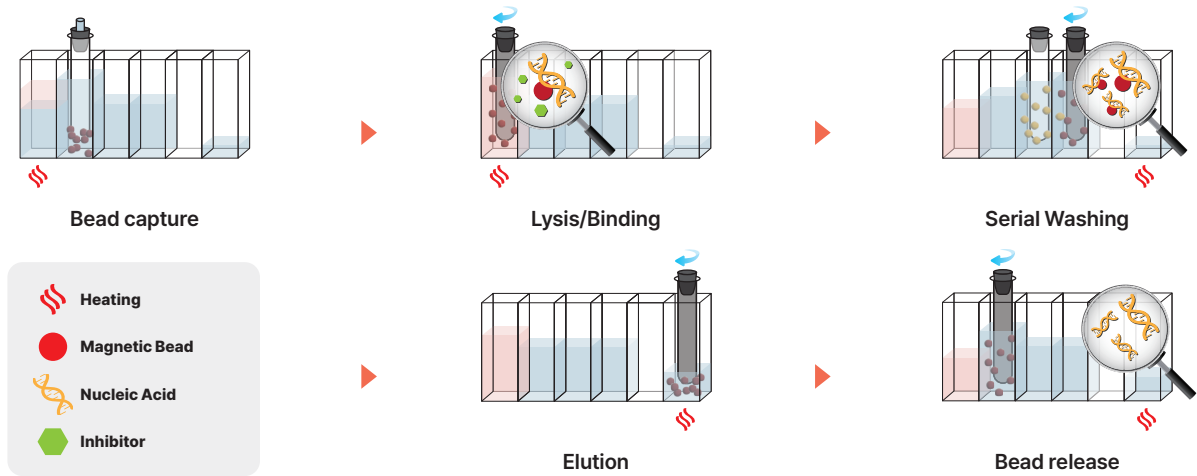
- Compact Size (510 × 500 × 480 mm)
- Expand customer convenience by applying customized protocols and different sample types



Parameter	Specification
Model	FaSTARprep96 Automated Nucleic Acid Extraction System
Cat. No.	IMC-FAST-P96D
Certificate	MFDS 23-1197
Throughput	96 Samples
Collection efficiency of the Magnetic bead	≥ 98%
Processing Volume	50~100uL
Heating Temperature	RT to 120°C
Operation Interface	Touch Panel
Carry-over contamination control	HEPA filter, Built-in UV lamp
Cross contamination control	Movement control
Dimensions (W x L x H)	510 × 500 × 480 mm
Weight	48kg
Power Requirement	AC110~240V, 50/60Hz, 600W
Operation Temperature	10~40°C
Operation Relative Humidity	< 80%



## Extraction Principle



## Extraction Kit

The FaSTAR-XT PGS DNA/RNA Kit, designed specifically for use with the FaSTARprep96 system, comes pre-filled with all necessary reagents, enhancing user convenience. During operation, magnetic beads move automatically to facilitate nucleic acid extraction, effectively preventing contamination and minimizing variability between users.

<b>Product</b>	FaSTAR-XT PGS DNA/RNA Kit (I) (W)
<b>Cat. No.</b>	17602-48(48 Test) / 17602-96 (96Test)
<b>Application</b>	Purify viral DNA / RNA
<b>Specimen</b>	Cell, Swab, Blood, etc



### Well Plate Type (96T)

### Kit Contents

Prefilled well plates	: 6EA
Mixing sleeve unit	: 12EA
Proteinase K, lyophilized	: 2vial
DNase/RNase free water	: 3vial

Product Name	Cat. No.	Size	Type
FaSTARprep96 Automated Nucleic Acid Extraction System	IMC-FAST-P96D	System	96 prep
FaSTAR-XT PGS DNA/RNA Kit (I)	17602-48	48T	Individual type
FaSTAR-XT PGS DNA/RNA Kit (W)	17602-96	96T	Well plate type
FaSTAR-XT Tissue DNA Kit	17603-96	96T	Well plate type

## easy-BLUE™ Total RNA Extraction Kit 17061

Solution type product that can easily extract high yield and purity total RNA from cell, tissue and plant etc.

- Total RNA extraction from solid samples such as cell, tissue and plant etc
- Easy separation of aqueous phase/ phenol phase with deep-cyan blue color solution
- High efficiency and purity total RNA extraction using high purity water-saturated phenol
- Optimized protocol for each specimen
- Completely eliminates cross-contaminants for precise downstream applications



## easy-spin™ Total RNA Extraction Kit 17221

Spin type product which can extract high purity and yield total RNA without any genomic DNA contamination easily and quickly from cells and tissues

- A combination product of phenol solution and spin column
- Minimization of genomic DNA contamination
- High yield and high purity total RNA extraction
- Unnecessary of Alcohol PPT procedure because of using column to extract total RNA
- Highly reproducible results with the use of column
- RNA extraction within 30 minutes



## RNA-spin™ Total RNA Extraction Kit 17211

Spin type product that can extract total RNA quickly and easily from cells and tissues

- Extraction of high yield and purity total RNA within 20 minutes from cells and tissues
- Unnecessary of organic solvent or alcohol PPT procedure
- High reproducible results
- Accurate downstream applications available by minimization of cross-contaminant
- Minimization of contamination concerns through application of CAPS method



## i-genomic Plant DNA Extraction Mini Kit 17371

Spin type product for extracting purified DNA from plant specimen (Leaf, Seed, Stem, etc) as well as processed food

- High reliability and reproducibility by providing optimized 5 types of protocol for each sample
- Possible to extract high yield and purified DNA from plant containing secondary product by using Enhancer Solution
- Provide standard sample description and data for more than 100 types of plant specimen and processed food
- Provide concrete instruction to extract DNA easily



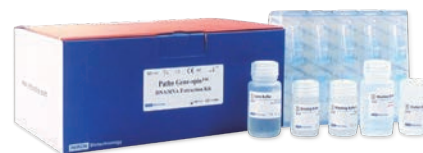
# Extraction Series

## Patho Gene-spin™ DNA/RNA Extraction Kit 17154 CE IVD



Extracts DNA/RNA easily and quickly from various pathogenic samples infected by virus or bacteria such as plasma, blood, serum, cell-free body fluids, cell and tissue etc.

- Stable extraction of DNA/RNA from various pathogenic samples
- Suitable for sample extraction such as forensic medicine and diagnosis of diseases etc.
- Used low concentration of chaotropic salt and better lysis efficiency
- Higher efficiency of lysis without additional additives
- Be used safely with non-phenol method and no need for EtOH precipitation
- Be useful for molecular diagnostic studies on clinical samples by minimizing contamination by CAPS



## Viral Gene-spin™ Viral DNA/RNA Extraction Kit 17151



Spin type product that can extract viral DNA/RNA easily and rapidly from the various clinical samples such as serum, plasma, cell free body fluid and stool etc.

- Extraction of Viral DNA/RNA from various clinical samples within 20 minutes
- High yield and purity viral DNA / RNA extraction with powerful lysis buffer
- Easy extraction without enzyme treatment
- Be used safely with non-phenol method and no need for EtOH precipitation
- OIE listed product based on various clinical sample results



## G-spin™ Total DNA Extraction Mini Kit 17045



Spin type product for extracting high yield and high purified DNA from various specimen such as Whole Blood, Cell, Tissue, Fixed tissue and Gram (-) Bacteria.

- Possible to extract DNA from various specimens such as Whole Blood, Cell, Tissue, Fixed tissue and Gram (-) Bacteria
- Possible to extract high yield and purified DNA with upgraded Lysis Buffer and Binding Buffer
- In case for extracting specimen from Blood, DNA can be extracted with only one buffer without performing RBC lysis separately
- Genomic DNA extraction quickly done within 20~30 minutes
- Optimized protocol provided for each specimen



Product Name	Cat. No.	Size	Application
Patho Gene-spin™ Viral DNA/RNA Extraction Kit	17154	50 col.	Pathogene DNA & RNA Spin type, Non-phenol
	17154.2	200 col.	
Viral Gene-spin™ Viral DNA/RNA Extraction Kit	17151	50 col.	Viral DNA & RNA sample
easy-BLUE™ Total RNA Extraction Kit	17061	100 ml	Solution type, Solid sample
easy-spin™ Total RNA Extraction Kit	17221	50 col.	NGS part, Spin+Solution type
RNA-spin™ Total RNA Extraction Kit	17211	50 col.	Spin type, Non-phenol
G-spin™ Total DNA Extraction Mini Kit	17045	50 col.	Spin type, Purify genomic DNA of Various samples
	17046 / 17046D	200 col.	
i-genomic Plant DNA Extraction Mini Kit	17371	50 col.	Plant and Processed food sample

## ❖ Maxime PCR Premix Series

### All-in-One DNA Polymerase Dried & aliquoted PreMix Kit with Excellent Product Stability and Reproducibility!

- **Dried & aliquoted PreMix, All-in-one products**
  - Immediate PCR by adding template and primer
  - Allows straight gel loading electrophoresis due to containing loading dye
- **Excellent product stability and reproducibility**
  - Excellent reproducibility with dried & aliquoted PreMix by ALHP system
  - Excellent stability due to oxidation and moisture prevention by vacuum compression manufacturing method

### Maxime™ PCR PreMix (i-Taq) 25025

- 94 KDa thermostable DNA polymerase
- Buffer optimization to show the best polymerase activity regardless of template type or reaction conditions
- Applicable to DNA from cloned DNA to human genomic DNA



### Maxime™ PCR PreMix (i-StarTaq) 25165

- High-purity Hot-start Taq DNA Polymerase
- Highly reproducible results
- Applicable to general PCR, RT-PCR, multiplex PCR and DNA discrimination by PCR (VNTR, STR, RAPD)
- Applicable to DNA from cloned DNA to human genomic DNA



### Maxime™ PCR PreMix (i-pfu) 25185

- High-purity pfu DNA Polymerase with proofreading capability, essential for gene cloning requiring high accuracy
- A low error rate of  $1 \times 10^{-6}$ , due to its 3'→5' exonuclease activity



### Maxime™ PCR PreMix (i-MAXII) 25265

- Enables high sensitivity, accuracy and low amplification from small size DNA to DNA of more than 20Kb by Proofreading capability
- Cloned DNA, human genomic DNA, as well as GC-rich or looped sequences that are difficult to amplify can be applied to various DNA



### Maxime™ PCR PreMix (i-StarMAXII) 25281

- High accuracy, specificity and low error rate
  - Added Hot-start function of i-StarTaq™ DNA polymerase
  - Enables amplification of both long and short DNA templates with high efficiency and sensitivity by the proofreading activity



## ❖ RealMOD™ 2X qPCR/qRT-PCR mix

### RealMOD™ Green W<sup>2</sup> 2x qPCR mix **25350**

Composed of SYBR Green type, can perform real-time PCR easily

- Products with high specificity and reproducibility
- High efficiency even for targets with low copy number
- Excellent qPCR results in templates with high GC contents



### RealMOD™ Probe M<sup>2</sup> 2X qPCR mix **25359**

### RealMOD™ Probe M<sup>2</sup> 2X qRT-PCR mix **25358**

2X Master mix type product, composed of TaqMan Probe type

- Possible to control Real-time PCR reaction volume
- Hot-start function included to minimize non-specific reactions
- Excellent reproducibility and stability
- Excellent qPCR results even in templates with high GC contents



### RealMOD™ Probe R<sup>2</sup> 2X qPCR mix (with UDG) **25363**

### RealMOD™ Probe R<sup>2</sup> 2X qRT-PCR mix (with UDG) **25362**

Prevent contamination in Real-time PCR by UDG system, composed of TaqMan Probe type

- Minimize cross contamination by applying UDG
- Real-time PCR reaction volume control possible with 2X Master Mix type
- Hot-start function included to minimize non-specific reactions
- Excellent reproducibility and enhanced PCR performance stability against interferences



Product Name	Cat. No.	Size	Type
RealMOD™ Green W <sup>2</sup> 2x qPCR mix	25350	100 rxn.	SYBR Green, qPCR
RealMOD™ Probe W <sup>2</sup> 2x qRT-PCR mix	25352.100 / 500 / 1000	100 / 500 / 1000 rxn.	TaqMan Probe, qRT-PCR
RealMOD™ Probe M <sup>2</sup> 2X qPCR mix	25359.100 / 500 / 1000	100 / 500 / 1000 rxn.	TaqMan Probe, qPCR
RealMOD™ Probe M <sup>2</sup> 2X qRT-PCR mix	25358. 100 / 500 / 1000	100 / 500 / 1000 rxn.	TaqMan Probe, qRT-PCR
RealMOD™ Probe M <sup>2</sup> 2X qRT-PCR mix (with UDG)	25361.100 / 500 / 1000	100 / 500 / 1000 rxn.	TaqMan Probe, qRT-PCR
RealMOD™ Probe M <sup>2</sup> 2X qPCR mix (with UDG)	25360. 100 / 500 / 1000	100 / 500 / 1000 rxn.	TaqMan Probe, qPCR
RealMOD™ Probe R <sup>2</sup> 2X qPCR mix (with UDG) <b>NEW</b>	25363.200 / 500 / 1000	200 / 500 / 1000 rxn.	TaqMan Probe, qPCR
RealMOD™ Probe R <sup>2</sup> 2X qRT-PCR mix (with UDG) <b>NEW</b>	25362. 100 / 500 / 1000	100 / 500 / 1000 rxn.	TaqMan Probe, qRT-PCR

# Mycoplasma Series

## e-Myco™ VALiD-Q Real-time PCR Kit (ver. 2.0) 25246



Validation Purpose(Real-time PCR type) / Suitable for rapid and accurate testing of mycoplasma negative results, providing confirmation within 52 min

- Mycoplasma validation for the production of biopharmaceuticals
- Rapid contamination detection using real-time PCR : 52 min
- Prevention of carry-over contamination using Uracil-DNA Glycosylase (UDG)
- Application of IPC system to verify the validity of PCR
- Demonstrated the performance to satisfy the negative test of Mycoplasma based on nucleic acid amplification method of domestic, US and European Pharmacopoeia

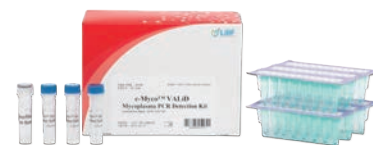


## e-Myco™ VALiD Mycoplasma PCR Detection Kit 25239



Validation Purpose(PCR type) / Detecting 70 Mycoplasma species & Validation analysis according to the E.P 2.6.7 guideline

- High sensitivity (10 cfu/ml) level as an alternative to the direct method
- Ready-to use / Contains all the components for PCR reaction in one tube
- Eliminate Carry-over contamination with 8-MOP activation



## e-Myco™ plus Mycoplasma PCR Detection Kit 25237



Dried & aliquoted PreMix Kit to detect 209 kinds of mycoplasma including pathogenic mycoplasma

- Detection of a wide range of 209 species, including pathogenic mycoplasmas
- Ready-to use / Contains all the components for PCR reaction in one tube
- Gel loading dye is already premixed for direct electrophoresis



## MycoClean™ Mycoplasma Prevention Spray 21083

Mycoplasma prevention spray of laboratory surfaces and apparatus

- Non-corrosive and non-carcinogenic
- Ready-to use / Spray type
- Convenient and stable



Product Name	Cat. No.	Size	Type	Application
e-Myco™ Mycoplasma PCR Detection Kit (ver.2.0)	25235	48 Tests	PreMix PCR Tube	
e-Myco™ plus Mycoplasma PCR Detection Kit	25237	48 Tests	PreMix PCR Tube	
e-Myco™ VALiD Mycoplasma PCR Detection Kit	25239	48 Tests	PreMix PCR Tube	Mycoplasma detection
e-Myco™ VALiD-Q Mycoplasma qPCR Detection Kit	25245	50 Tests	Real-time Solution	
e-Myco™ VALiD-Q Real-time PCR kit (ver.2.0) <b>NEW</b>	25246	50 Tests	Real-time Solution	
MycoClean™ Mycoplasma Prevention Spray	21083	200 ml	Solution / Spray	Mycoplasma Removal

## PRO-PREP™ Protein Extraction Solution **17081**

Possible to extract high purity total protein quickly and easily from cells or tissues

- Simply extract protein from all kinds of cells and tissues
- Protein stabilization buffer included for protein stabilizing
- 5 kinds of protease inhibitor included to minimize protein degradation
- Only takes 20~30min for protein extraction



## PRO-MEASURE™ Protein Measurement Solution **21011**

Easy and fast quantification of 1 ~ 250 ug/ml protein based on Bradford assay

- Low Background interference
- High sensitivity to detect 1 ~ 250 ug/ml protein
- Simple application within 10 min



## Miracle-Femto™ Western Detection System **16035**

Highly sensitive chemiluminescent substrate designed for the detection of target proteins in Western blot analysis

- Femto-gram Level sensitivity : Detect target proteins
- Broad dynamic range : Achieve a wide linear dynamic range, enabling accurate quantification of target protein levels
- Rapid and simple protocol / Stable signal



## SMART-Pro™ Staining Solution **31195**

Stain proteins in SDS PAGE gels without the need for separate destaining or washing steps / Ready for use, Solution type

- High Sensitivity : Capable of staining even faint protein bands clearly, ensuring precise analysis
- Rapid Staining Time : Completes staining in a short time (30min)
- Simple protocol : The easy-to-use protocol minimizes hands-on time
- Clear Background : Produces distinct and sharp protein bands



## GangNam-STAIN™ Prestained Protein Ladder **24052**

A wide-range Prestained Protein Ladder with 12 bands visible between 10 and 245 kDa

- Broad protein marker with 12 bands in the range of 10 ~ 245 kDa
- Clear identification by two reference bands, 25 kDa (Green) and 75 kDa (Red)
- Easy-to-use product without prior processing
- Suitable for Western blotting, CBB staining, Silver staining



Product Name	Cat. No.	Size	Application
PRO-PREP™ Protein Extraction Solution (Cell/Tissue)	17081	100 ml	Protein Prep
PRO-PREP™ Protein Extraction Solution (Cell/Tissue) (EDTA free)	17081.1	100 ml	
PRO-MEASURE™ Protein Measurement Solution	21011	100 ml	Protein Quantification
SMART™ BCA Protein Assay Kit	21071	2,500 Tests	
SMART-Pro™ Staining Solution <b>NEW</b>	31195	500 ml	Protein Staining
GangNam Stain™ Prestained Protein Ladder (3 Colors)	24052	250 ul	Protein Marker
Miracle-Star™ Western Blot Detection System	16028	200 ml	Western Blot
Miracle-Femto™ Western Detection System <b>NEW</b>	16035	100 ml	
NomeIRT™ Western Blot Stripping Buffer	21112	500 ml	

## iN-fect™ in vitro Transfection Reagent 15081

Capable of strong DNA-binding affinity and high transfection efficiency

- Polymer-based transfection reagent
- DNA and RNA transfection in eukaryotic cells
- Transfection to various kinds of cell lines
- High transfection efficiency and low cell toxicity
- Easy to use and store
- Direct application to the medium used for culture



## RNase WiPER™ 21131

Essential product of RNA Work that facilitates the removal of RNase from laboratory instruments and glass

- Ready to use type
- Excellent safety and non-impact on subsequent experiments
- Effective elimination of not only RNase but also DNA contamination



## NO (Nitric Oxide) Plus Detection kit 21023

Indirectly measure NO<sub>2</sub><sup>-</sup> produced by NOS (Nitric Oxide synthesis) in Urine sample, culture media, Plasma, serum, Tissue homogenate

- Development based on the Diazotization assay (Griess method)
- Composed of two kinds of solutions and is suitable for accurate quantitative determination of nitric oxide
- Provide sufficient Nitrite standard solution to perform control test at least 13 times



## LPS Extraction Kit 17141

Separate / purify LPS existing on the outer wall of Gram-negative bacteria

- Isolation / purification of LPS in Gram-negative bacteria
- Phenol-water method of LPS extraction
- Effective removal of contaminants such as proteins and nucleic acids
- The most efficient and simple LPS extraction product
- Maximum of the complete process of LPS extraction within 60 minutes



## RedSafe™ Nucleic Acid Staining Solution **21141**

Safe nucleic acid staining reagent, a substitute for EtBr

- Visualization of DNA and RNA bands during agarose gel electrophoresis
- Isolation of DNA fragments for subcloning while minimizing mutation risks associated with EtBr
- Suitable for Both Pre-casting and Post-Staining



## SiZer™-100 / 1,000 / 1,000 plus DNA Marker Solution **24073**

A variety of size fragments consist of DNA Marker fragments

- Easy-to-use product with ready-to-use type
- Excellent sharpness and resolution / Identify various size fragments
- Available in RedSafe™ Nucleic Acid Staining Solution (Cat. No. 21141), Ethidium bromide and other DNA stains



## RedStar™ DNA/RNA Loading Dye (6X) **21142**

User friendly than EtBr / Pre-mixed with loading buffer to simplify workflow and save valuable time

- DNA and RNA visualization without gel staining as an alternative to EtBr
- Safer Than EtBr : Non-carcinogenic and eco-friendly, reducing health risks and environmental impact
- Provides clear, sharp bands and is compatible with a wide range of gel electrophoresis applications



## RedStar™ 100bp / 1kb DNA Ladder **24079**

User friendly / Ready to use DNA Ladder / Suitable for fluorescent-free agarose gel electrophoresis

- Contains RedStar DNA/RNA Loading Dye
- Distinct band resolution at 595nm wavelength
- Allow easy identification due to the presence of several fragments at increased intensity



## Genomic DNA

Category	Product	Cat. No.	Size	Application
Genomic DNA	G-spin™ Total DNA Extraction Mini Kit	17045	50 col.	Spin type, Purify genomic DNA of Various samples
		17046	200 col.	
	G-spin™ Genomic DNA Extraction Mini Kit (Bacteria)	17121	50 col.	Spin type, Gram(+) and (-) Bacteria
	G-DEX™ Ilc Genomic DNA Extraction Kit (Cell/Tissue)	17231	300 Tests	Solution type, Cell and tissue sample
	i-genomic BYF DNA Extraction Mini Kit	17361	50 col.	Gram (+) Bacteria / Yeast / Fungi
	i-genomic Plant DNA Extraction Mini Kit	17371	50 col.	Spin type, Plant and Processed food sample
Buffer & etc.	G-DEX IIb RBC Lysis Buffer	172R-1000	1 L	Component of G-DEX Related each buffer
	G-DEX II Cell Lysis Buffer	172C-1000	1 L	
	G-DEX II Protein PPT Buffer	172P-0350	350 ml	
	G-DEX II DNA Rehydration Buffer	172D-0500	500 ml	

## RNA

Category	Product	Cat. No.	Size	Application
Patho & Viral RNA	Patho Gene-spin™ Viral DNA/RNA Extraction Kit	17154	50 col.	Pathogene DNA & RNA Spin type, Non-phenol
		17154.2	200 col.	
	Viral Gene-spin™ Viral DNA/RNA Extraction Kit	17151	50 col.	Viral DNA & RNA sample
Total RNA	easy-BLUE™ Total RNA Extraction Kit	17061	100 ml	Solution type, Solid sample
	easy-spin™ Total RNA Extraction Kit	17221	50 col.	NGS part, Spin+Solution type
	RNA-spin™ Total RNA Extraction Kit	17211	50 col.	Spin type, Non-phenol
Plant RNA	IQeasy™ plus Plant RNA Extraction Mini Kit	17491	50 col.	Total RNA of plant materials
Column & etc.	RNA series Column + Collection tube (CAPS)	C17000RC	500 ea	Spin Column and 2.0ml collection tube
	RNase WIPER	21131	400 ml	Spray type, Remove RNase

## Other Reagents

Category	Product	Cat. No.	Size	Application
Electrophoresis	RedSafe™ Nucleic Acid Staining Solution	21141	1 ml	EtBr Alternative
	RedStar™ DNA/RNA Loading Dye(6X) <b>NEW</b>	21142	1 ml	EtBr Alternative
	RedStar™ 100bp DNA Ladder <b>NEW</b>	24079	0.5 ml	DNA Size Marker
	RedStar™ 1Kb DNA Ladder <b>NEW</b>	24080	0.5 ml	DNA Size Marker
	SiZer™-100 DNA Marker Solution	24073	0.5 ml	DNA Size Marker
	SiZer™-1000 DNA Marker Solution	24074	0.5 ml	DNA Size Marker
	SiZer™-1000 plus DNA Marker Solution	24075	0.5 ml	DNA Size Marker
	Agarose LE	32034	500 g	Routine Analysis, Blotting
PCR (dNTP)	dNTP Mixture	32292	2.5 mM/each (2 ml)	PCR dNTP solution mixture
Lipopolysaccharide	LPS Extraction Kit	17141	100 rxn.	Lipopolysaccharides Prep

## PCR Core Kit

Product	Cat. No.	Size	Application
i-Taq™ DNA Polymerase with Buffer, dNTPs	25021	250 Units	Conventional PCR
	25022	500 Units	
i-StarTaq™ DNA Polymerase with Buffer, dNTPs	25161	250 Units	Conventional PCR, Hot-start
	25162	500 Units	
i-MAX™ II DNA Polymerase with Buffer, dNTPs	25261	250 Units	Conventional PCR, Long, Accurate
i-StarMAX™ II DNA Polymerase with Buffer, dNTPs	25173	250 Units	Conventional PCR, Hot-start, Long, Accurate
i-pfu DNA Polymerase with Buffer, dNTPs	25181	250 Units	Conventional PCR, Proof Reading, Accurate

## 2X Master Mix

Product	Cat. No.	Size	Application
2X PCR Master mix Solution (i-Taq)	25027	0.5 ml x 2vials	Conventional PCR
2X PCR Master mix Solution (i-StarTaq)	25166	0.5 ml x 2vials	Conventional PCR, Hot-start
2X PCR Master mix Solution (i-MAX II)	25266	0.5 ml x 2vials	Conventional PCR, Long, Accurate
2X PCR Master mix Solution (i-StarMAX II)	25174	0.5 ml x 2vials	Conventional PCR, Hot-start, Long, Accurate
2X PCR Master mix Solution (i-pfu)	25185	0.5 ml x 2vials	Conventional PCR, Proof Reading, Accurate

## PCR PreMix

Product	Cat. No.	Size	Application
Maxime™ PCR PreMix Kit (i-Taq)	25025	96 tubes	Conventional PCR
	25026	480 tubes	
Maxime™ PCR PreMix Kit (i-StarTaq)	25165	96 tubes	Conventional PCR, Hot-start
	25167	480 tubes	
Maxime™ PCR PreMix Kit (i-StarTaq)	26051	480 tubes	Conventional PCR, Hot-start, Accurate
Maxime™ PCR PreMix Kit (i-MAX II)	25265	96 tubes	Conventional PCR, Long, Accurate
Maxime™ PCR PreMix Kit (i-StarMAX II)	25281	96 tubes	Conventional PCR, Hot-start, Long, Accurate
Maxime™ PCR PreMix Kit (i-pfu)	25185	96 tubes	Conventional PCR, Proof Reading, Accurate

## RT-PCR

Product	Cat. No.	Size	Description & Application
Maxime™ RT-PCR PreMix	25131	96 tubes	One-step RT-PCR, Premix Type, Hot-start
HiSenScript™ RH(-) RT PreMix kit	25135	96 tubes	One-step RT-PCR, Premix Type, Antibody based Hot-start
ONE-STEP RT-PCR PreMix Kit	25101	50 rxn.	One-step RT-PCR, Master mix Type, Hot-start

## cDNA Synthesis

Product	Cat. No.	Size	Description & Application
Maxime™ RT PreMix Kit (Oligo dT Primer)	25081	96 tubes	RNA of eukaryotic cells
Maxime™ RT PreMix Kit (Random Primer)	25082	96 tubes	RNA of eukaryotic and prokaryotic cells
HiSenScript™ RH(-) RT PreMix kit	25087	50 rxn.	Premix type, Highest sensitivity
Power cDNA Synthesis Kit	25011	30 rxn.	First-strand cDNA, Manual type

## Real - time PCR

Category	Product	Cat. No.	Size	Application
<b>TaqMan Probe (UDG ver)</b>	RealMOD™ Probe R <sup>2</sup> 2X qPCR mix (with UDG)	25363.200	100 rxn.	TaqMan Probe type, UDG ver, qPCR
		25363.500	500 rxn.	
		25363.1000	1000 rxn.	
	RealMOD™ Probe R <sup>2</sup> 2X qRT-PCR mix (with UDG)	25362.100	100 rxn.	TaqMan Probe type, UDG ver, qRT-PCR
		25362.500	500 rxn.	
		25362.1000	1000 rxn.	
	RealMOD™ Probe M <sup>2</sup> 2X qPCR mix (with UDG)	25360.100	100 rxn.	TaqMan Probe type, UDG ver, qPCR
		25360.500	500 rxn.	
		25360.1000	1000 rxn.	
	RealMOD™ Probe M <sup>2</sup> 2X qRT-PCR mix (with UDG)	25361.100	100 rxn.	TaqMan Probe type, UDG ver, qRT-PCR
		25361.500	500 rxn.	
		25361.1000	1000 rxn.	
<b>TaqMan Probe</b>	RealMOD™ Probe M <sup>2</sup> 2X qPCR mix	25359.100	100 rxn.	TaqMan Probe type, qPCR
		25359.500	500 rxn.	
		25359.1000	1000 rxn.	
	RealMOD™ Probe M <sup>2</sup> 2X qRT-PCR mix	25358.100	100 rxn.	TaqMan Probe type, qRT-PCR
		25358.500	500 rxn.	
		25358.1000	1000 rxn.	
	RealMOD™ Probe W <sup>2</sup> 2X qRT-PCR mix	25352.100	100 rxn.	TaqMan Probe type, qRT-PCR
		25352.500	500 rxn.	
		25352.1000	1000 rxn.	
<b>SYBR Green</b>	RealMOD™ Green W <sup>2</sup> 2x qPCR mix	25350	100 rxn.	SYBR Green type, qPCR



## Maxime Pre-made Buffer series

- Water, DEPC Treated / PBS / Transfer Buffer / 1M Tris-HCl Buffer
- TE Buffer, pH 8.0 / 20x TBS Buffer / TAE Buffer / TBS Buffer
- Stripping Buffer / 20X SSC / Sodium chloride Solution / SDS Solution
- RIPA Buffer / 10X / MOPS Buffer / EDTA / Loading Buffer / etc.

## Pre-made Buffer



Based on Know-how and unique technology, Maxime Pre-made Buffer provides not only existing products but also customizing services.

iNtRON provides customized buffer to meet your needs.

## Plasmid DNA

Category	Product	Cat. No.	Size	Application
PCR & Gel elution	MEGAquick-spin™ Plus Total Fragment DNA Purification Kit	17290	200 col.	Spin type, High Recovery of DNA, Fragment DNA Clean-up
	Plasmid DNA	DNA-spin™ Plasmid DNA Purification Kit	17096	50 col.
		17098	200 col.	
Fast DNA-spin™ Plasmid DNA Purification Kit		17013	200 col.	Spin type, Simple and quick
DNA-midi™ GT Plasmid DNA Purification Kit		17254	25 col.	Gravity type, Midi scale
DNA-maxi™ SV Plasmid DNA Purification Kit		17253	12 col.	Spin & Vacuum type, Maxi scale
TA Cloning	pLUG-Prime® TA-cloning Vector Kit II	11063	20 rxn.	Fast ligation and high transformation efficiency

## Protein

Category	Product	Cat. No.	Size	Application
Prep & Assay	PRO-PREP™ Protein Extraction Solution (C/T)	17081	100 ml	Purified total protein
	PRO-MEASURE™ Protein Measurement Solution	21011	100 ml	Based on Bradford assay, Working range : 1 ~250ug/ml
	SMART™ BCA Protein Assay Kit	21071	2,500 tests	Based on BCA assay, Working range : 20 ~ 2,000ug/ml
	SMART-Pro™ Staining Solution <b>NEW</b>	31195	500 ml	Stain proteins in SDS PAGE gels without the need for separate destaining or washing steps
Marker	GangNam-STAIN™ Prestained Protein Ladder	24052	250 µl	Size range : 10 ~ 245 kDa, Number of bands : 12
Western blot	Miracle-Star™ Western Blot Detection System	16028	200 ml	Chemiluminescence detection, Pico-gram level
	Miracle-Femto™ Western Detection System <b>NEW</b>	16035	100 ml	Chemiluminescence detection, Femto-gram level
	NomeIRT™ Western Blot Stripping Buffer	21112	500 ml	No smell, Room temperature

## Cell Culture

Category	Product	Cat. No.	Size	Application
Transfection	iN-fect™ in vitro Transfection Reagent	15081	500 µl	Transfection to various kinds of cell lines
	NO (Nitric Oxide) Plus Detection kit	21023	≤ 1,000 assay	Quantitative analysis of total nitric oxide

## Mycoplasma

Category	Product	Cat. No.	Size	Application
Mycoplasma detection	e-Myco™ Mycoplasma PCR Detection Kit (ver.2.0)	25235	48 Tests	Conventional PCR type / PreMix PCR Tube
	e-Myco™ plus Mycoplasma PCR Detection Kit	25237	48 Tests	
	e-Myco™ VALiD Mycoplasma PCR Detection Kit	25239	48 Tests	PreMix PCR type / Validation analysis according to the E.P guideline
	e-Myco™ VALiD-Q Mycoplasma qPCR Detection Kit	25245	50 Tests	Real-time PCR type / Validation analysis according to the E.P guideline
	e-Myco™ VALiD-Q Real-time PCR kit (ver.2.0) <b>NEW</b>	25246	50 Tests	
Mycoplasma Removal	Mycoclean™ Mycoplasma Prevention Spray	21083	200 ml	Mycoplasma Removal / Spray Solution



Difference & Fun

**i** t is iNtRON  
**N**ew style  
**t** rendy product  
**R**ising Star  
**O**ppportunity  
**N**ow your turn