

# DNA

## Total DNA Purification system

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Exgene™ Series

GenEx™ Series

DirEx™ Series

Automated Nucleic Acid Extraction System



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# Total DNA Purification System

Exgene™ and GenEx™ series are designed for the purification of total DNA from a variety of samples.

Exgene™ series provide fast and easy methods free from phenol extraction or alcohol precipitation, in convenient spin or vacuum column format. GenEx™ series provide convenient, scalable purification methods in the specially formulated buffer system. DirEx™ series can be conveniently used for total DNA isolation from various biological samples as single tube template DNA preparation solution for PCR.

Purified total DNA can be directly applicable in conventional PCR, Real-time PCR, southern blotting, genotyping, RFLP, and other downstream applications.

Sample Type	Exgene™											GenEx™**				DirEx™
	Exgene™ Tissue SV (Plus)*	Exgene™ Blood SV	Exgene™ Cell SV	Exgene™ Clinic SV	Exgene™ Genomic DNA micro	Exgene™ Viral DNA/RNA	Exgene™ Plant SV	Exgene™ Soil DNA mini	Exgene™ FFPE Tissue DNA	Exgene™ Stool DNA mini	Exgene™ Stool-Bead DNA	GenEx™ Blood	GenEx™ Cell	GenEx™ Tissue	GenEx™ Plant (Plus)***	DirEx™ /DirEx™ Fast
Animal tissues	○		○	○	○									○		○
Body fluid		○	○	○	○	○							○	○		△
Bone					○											
Buccal swab	△	○	○	○	○								○	○		○
Buffy coat		○	○	○	△							△				
Callus							○							○		
Cultured cells	○	○	○	○	△	○							○	○		○
DNA Virus		○	○	○	△	○								△		
Dried blood spot	△		○	○	○									△		○
Fixed tissues	△		○	○	△			○						△		
Forensic samples					○											△
Fungi							○	△							○	
Gram(-) bacteria	○		○	○	△								○	○		○
Gram(+) bacteria			○										△	△		△
Hair	△	○	○	○	○									△		○
Lichens								○								
Insect / Worm	○		△	△	△									○		△
Mammalian whole blood	○*	○	○	○	○							○				○
Nail					○											○
Nucleated blood	△	○	○	○	△								△	△		△
Paraffin block	○		○	○	△			○						○		
Plant cells							○								○	
Plant tissues							○								○	
Rodent tails	○		○	○	△									○		○
Saliva		○	○	○	○	○								△		
Soil								○								
Sperm		○	○	○	○									△		
Stool										○	○					
Urine	△		△	△	○	○								△		
Yeast			○										△	△		

○ Recommended / △ Suitable but not optimized and required additional protocol

\* Exgene™ Tissue Plus kit provides the additional methods for total DNA purification from mammalian whole blood.

\*\* GenEx™ series provide convenient, scalable purification methods in the specially formulated buffer systems.

\*\*\* GenEx™ Plant Plus kit has an additional feature, EzSep™ Filter column for cleared supernatant

## Exgene™ Cell SV

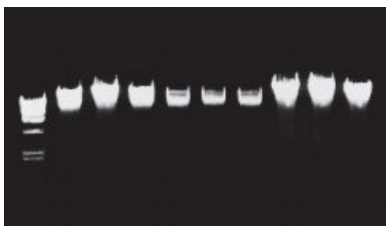
For the isolation of DNA from cultured cell, yeast, gram positive/negative bacteria, and etc.

### [ Features ]

- Spin or vacuum column format
- Accurate and consistent DNA extraction from gram positive or negative bacteria, cultured cells, yeast, and various biological samples
- High purity : 1.8~2.0
- Simple and safe procedure
- No use of organic solvents
- Ready for use in PCR, southern blotting, AFLP, RFLP, RAPD, and other enzymatic reactions

### [ Performance ]

M DH5 $\alpha$ F Yeast 293T cell

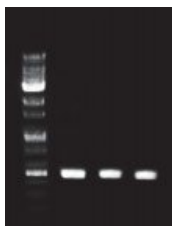


#### DNA Extraction from Various Samples

Genomic DNA prepared from a several species of cells using Exgene™ Cell SV kit. 5  $\mu$ l out of 100  $\mu$ l eluate was loaded on 0.8% agarose gel.

M : Lambda-HindIII

M 1 2 3



#### PCR Amplification

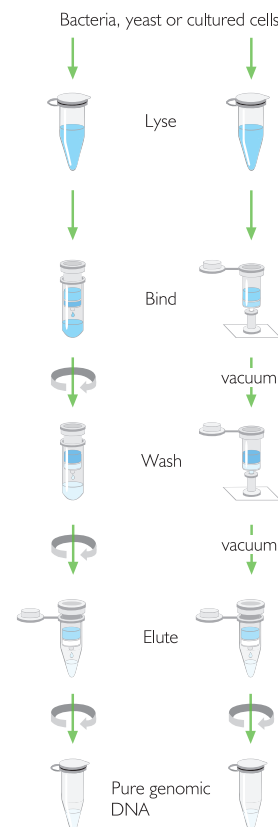
PCR reaction was performed with genomic DNA purified from DH5 $\alpha$ F using Exgene™ Cell SV kit.

M : Lambda-HindIII

Products	Scale	Size	Cat. No.	Type
Exgene™ Cell SV	mini	100/250	106-101/106-152	spin/vacuum
Exgene™ Cell SV	MAXI	10/26	106-310/106-326	

in microcentrifuges

on vacuum manifolds



## Exgene™ Clinic SV

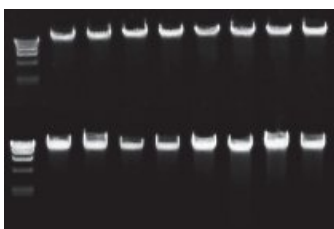
For the isolation of DNA from clinical tissues including whole blood

### [ Features ]

- Spin or vacuum column format
- Easy and fast purification of high-quality DNA
- Accurate and consistent DNA extraction from various clinical samples including tissue, whole blood, and body fluids
- No organic extraction or alcohol precipitation
- Consistent and high yields
- High purity : 1.8~2.0
- Ready for use in PCR, southern blotting, genotyping, and etc.

### [ Performance ]

M 1 2 3 4 5 6 7 8



#### Consistent Result from Various Samples

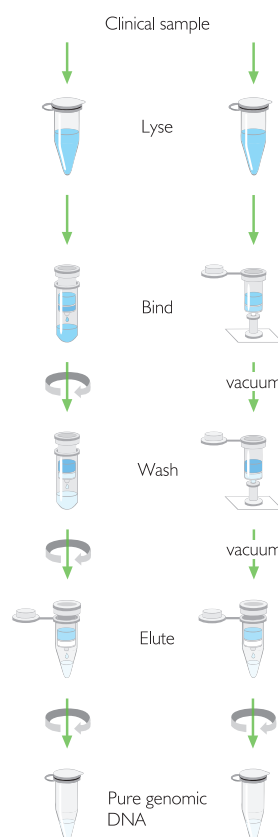
Total DNA purified from various sample tissues using Exgene™ Clinic SV kit is loaded on 0.8% agarose gel.

M : Lambda-HindIII

Products	Scale	Size	Cat. No.	Type
Exgene™ Clinic SV	mini	100/250	108-101/108-152	spin/vacuum
Exgene™ Clinic SV	Midi	26/100	108-226/108-201	
Exgene™ Clinic SV	MAXI	10/26	108-310/108-326	

in microcentrifuges

on vacuum manifolds



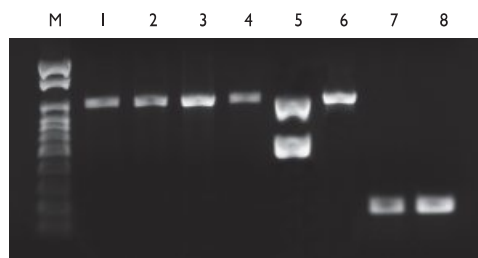
## Exgene™ Genomic DNA micro

For the isolation of DNA from micro-scale biological samples

### [ Features ]

- Spin column format
- Applicable for very small sample amounts : Use of Carrier RNA and micro column
- Various protocols for forensic samples : Stain, chewing gum, cigarette butts, tooth brush, and etc.

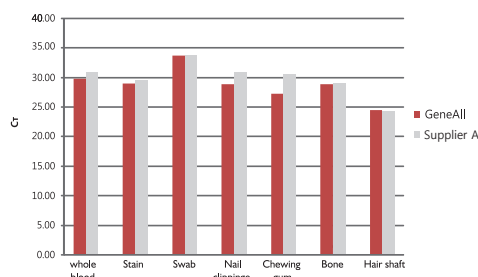
### [ Performance ]



#### PCR Amplification

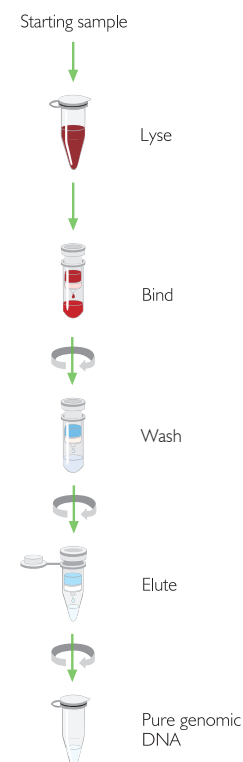
PCR reaction was performed with purified DNA using Exgene™ Genomic DNA micro kit. Template was isolated from whole blood (Lane 1), dried blood spot (Lane 2), hair root (Lane 3), chewing gum (Lane 4), animal tissue (Lane 5), urine (Lane 6), bone (Lane 7), and hair shaft (Lane 8).  
M : 1 kb ladder

- Simple and safe procedure
- Stable and consistent result
- No need of additional materials
- High yield and purity
- Ready for use in conventional PCR, qPCR, genotyping such as STR analysis, and other downstream applications



#### Real-Time PCR Amplification

DNA extraction from various biological samples using Exgene™ Genomic DNA micro and Supplier A. Real-time PCR was carried out two primer sets, human GAPDH or mitochondrial hypervariable region, and detected by SYBR® Green reagent.



Products	Scale	Size	Cat. No.	Type
Exgene™ Genomic DNA micro	mini	50	I18-050	spin

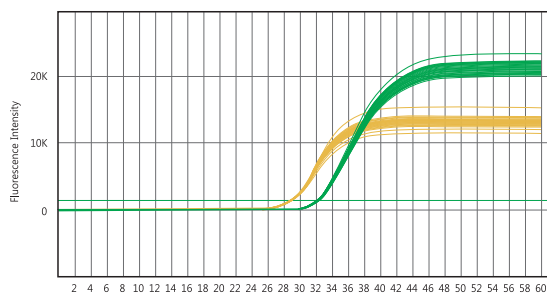
## Exgene™ Viral DNA/RNA

For viral DNA/RNA isolation from various samples

### [ Features ]

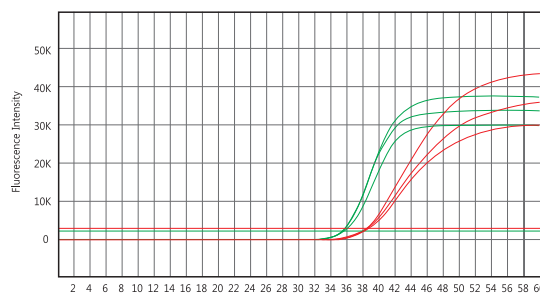
- Spin column format
- Stable and consistent result
- Fast and simple procedure
- No use of organic solvents
- Ready for use in Real-time PCR and conventional PCR
- Optimized for liquid sample : Blood serum, plasma, liquid culture cell, and etc.
- High extraction efficiency : Use of Proteinase K, Carrier RNA and micro column

### [ Performance ]



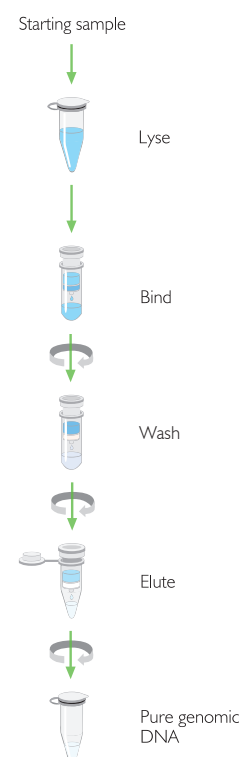
#### Stable and Consistent Extraction

HIV-positive samples were diluted to 1,000 IU/ml with human serum. HIV DNA extraction was performed with 24 repetitions using the Exgene™ Viral DNA/RNA kit, and the consistency of the extraction was confirmed by Real-time PCR.  
Green is HIV signal and yellow is IC (Internal Control) signal.



#### Simultaneous Extraction of Viral DNA and RNA

The extracted HIV RNA (50 IU/ml, red) and HBV DNA (50 IU/ml, green) using the Exgene™ Viral DNA/RNA kit were amplified and detected by Real-time PCR in triplicate.



Products	Scale	Size	Cat. No.	Type
Exgene™ Viral DNA/RNA	mini	50	I28-150	spin

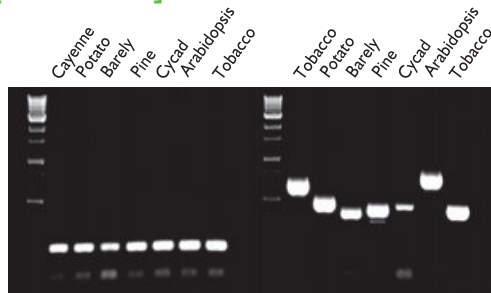
## Exgene™ Plant SV

For the isolation of DNA from plant cells and tissues

### [ Features ]

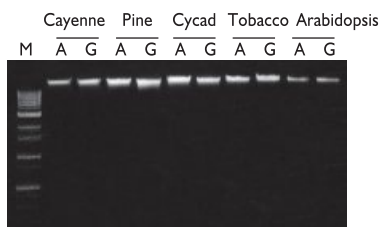
- Spin or vacuum column format
- No use of organic solvents
- Stable and consistent DNA extraction from plant cells, tissues, and fungi
- Perfect removal of second metabolites such as polyphenols and polysaccharides
- Simple procedure by the use of EzSep™ Filter
- Ready for use in PCR, southern blotting, AFLP, RFLP, RAPD, and other enzymatic reactions

### [ Performance ]



#### PCR Amplification

PCR reaction was performed with purified DNA using Exgene™ Plant SV kit. Two primer sets were used: trnL region (left lanes) and large subunit rDNA region on plasmid (right lanes).



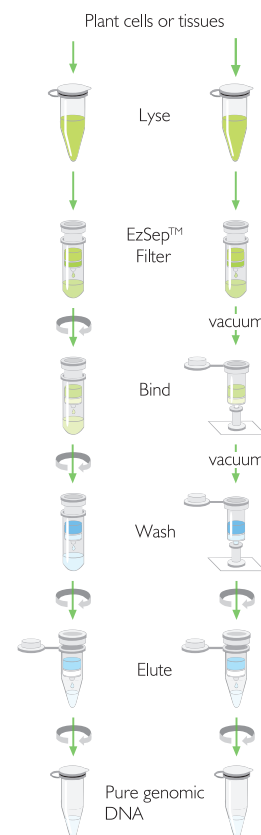
#### Comparison of DNA Extraction

Genomic DNA was extracted from each 100 mg of various samples and analyzed on 0.8% agarose gel. To compare with Supplier A, same kind and amount of each plant samples were subjected to extraction.

A: Supplier A G: Exgene™ Plant SV kit M: 1 kb ladder

Products	Scale	Size	Cat. No.	Type
Exgene™ Plant SV	mini	100/250	117-101/117-152	spin/vacuum
Exgene™ Plant SV	Midi	26/100	117-226/117-201	
Exgene™ Plant SV	MAXI	10/26	117-310/117-326	

in microcentrifuges on vacuum manifolds



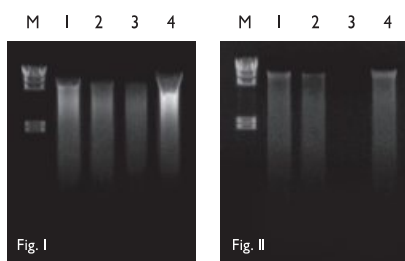
## Exgene™ Soil DNA mini

For the isolation of DNA from soil samples

### [ Features ]

- Spin column format
- Easy and fast purification of high-quality DNA
- Efficient lysis step using Powerbead™ tube
- Stable and consistent yield
- No organic extraction or alcohol precipitation
- High purity : Ready for the conventional and Real-time PCR
- Sample size : Up to 500 mg
- Preparation time : 25 min
- Perfect removal of humic acid

### [ Performance ]



#### Comparison of DNA Extraction

DNA isolated from various soil samples with Exgene™ Soil DNA mini (Fig. I) vs Supplier A (Fig. II).

(used vortex homogenization method)

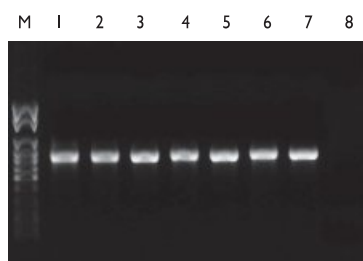
Lane M : Lambda-HindIII

Lane 1 : Soil under cherry blossom

Lane 3 : Soil of cabbage patch

Lane 2 : Soil of onion patch

Lane 4 : Mud



#### PCR Amplification

DNA was purified from various soil samples using Exgene™ Soil DNA mini. And then the 16s rRNA was amplified by PCR and confirmed by electrophoresis.

Lane M : 100 bp ladder

Lane 1 : Pot soil

Lane 2 : Soil under cherry blossom A

Lane 3 : Soil of cabbage patch A

Lane 4 : Soil under cherry blossom B

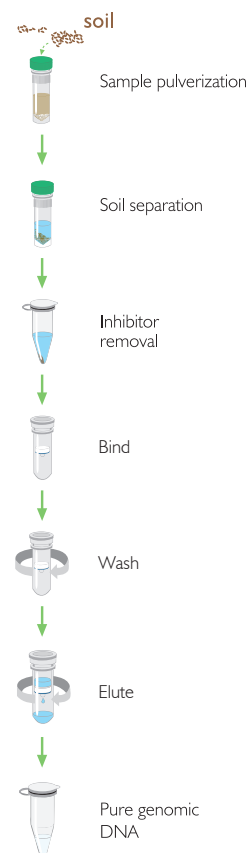
Lane 5 : Soil of cabbage patch B

Lane 6 : Soil under cherry blossom C

Lane 7 : Soil of cabbage patch C

Lane 8 : Negative control

Products	Scale	Size	Cat. No.	Type
Exgene™ Soil DNA mini	mini	50	114-150	spin



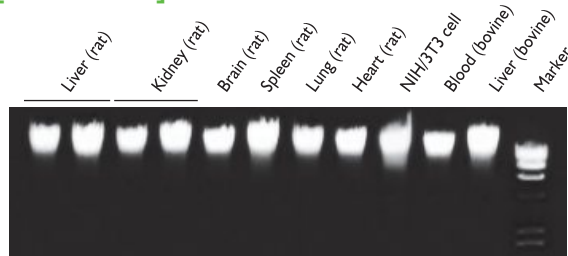
## Exgene™ Tissue SV (Plus)

For the isolation of DNA from tissues, cells, and whole blood (Plus only)

### [ Features ]

- Spin or vacuum column format
- Accurate and consistent DNA extraction from animal tissues, cultured cell line, and whole blood (Plus only)
- Simple and safe procedure
- High purity : 1.8~2.0
- No use of organic solvents
- Ready for use in PCR, southern blotting, AFLP, RFLP, RAPD, and other enzymatic reactions

### [ Performance ]

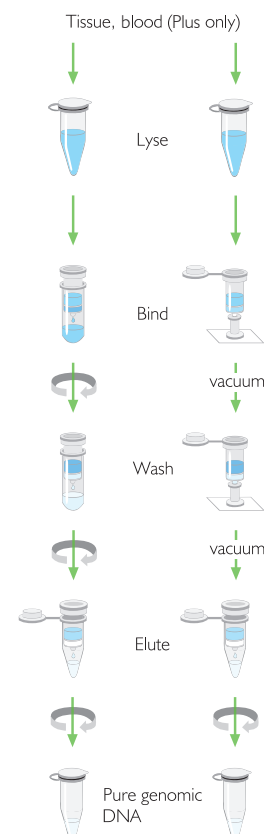


#### DNA Extraction from Various Samples

DNA from several kinds of animal tissues was prepared using Exgene™ Tissue SV kit. Elution was performed with 100  $\mu$ l of Buffer AE and 8  $\mu$ l of eluates was loaded on 0.8% agarose gel.

Products	Scale	Size	Cat. No.	Type
Exgene™ Tissue SV	mini	100/250	104-101/104-152	spin/vacuum
Exgene™ Tissue SV	Midi	26/100	104-226/104-201	
Exgene™ Tissue SV	MAXI	10/26	104-310/104-326	
Exgene™ Tissue SV Plus	mini	100/250	109-101/109-152	
Exgene™ Tissue SV Plus	Midi	26/100	109-226/109-201	
Exgene™ Tissue SV Plus	MAXI	10/26	109-310/109-326	

in microcentrifuges on vacuum manifolds



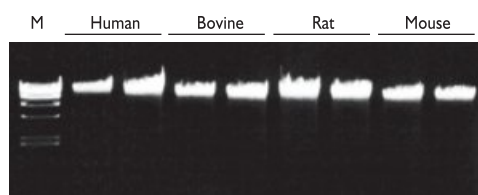
## Exgene™ Blood SV

For the purification of DNA from blood and its derivatives

### [ Features ]

- Spin or vacuum column format
- Accurate and consistent DNA extraction from whole blood, buffy coat, serum, plasma, and cultured cells
- Fast, safe, and simple procedure completed in 20 min (mini) or 1 hour (Midi, MAXI)
- High purity : 1.8~2.0
- No use of organic solvents
- Ready for use in PCR, southern blotting, and other enzymatic reactions

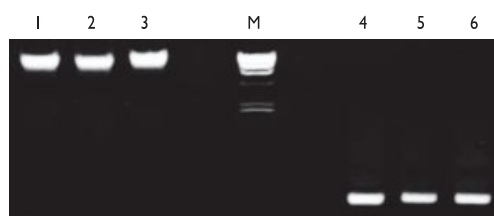
### [ Performance ]



#### DNA Extraction from Various Samples

Total DNA was isolated from 200  $\mu$ l of whole blood of various species using Exgene™ Blood SV mini kit. Each lane represents 8  $\mu$ l of 10  $\mu$ l eluates.

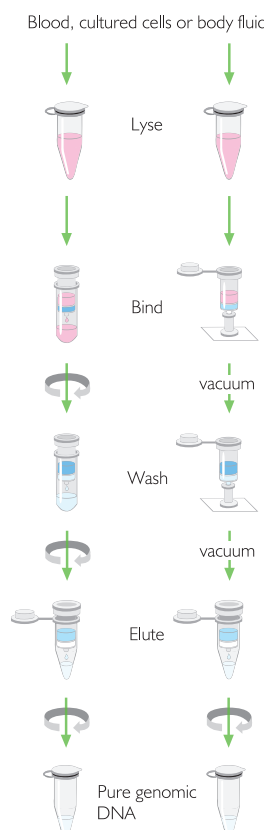
M : Lambda-HindIII



#### PCR Amplification

PCR reaction was performed with purified DNA using Exgene™ Blood SV kit as template. Each lane 1, 2, and 3 corresponds to the template of each PCR product (Lane 4, 5, 6). Template DNA was isolated from whole blood of rat (SD) and the exon region of GAPDH gene was amplified with Taq polymerase.

in microcentrifuges on vacuum manifolds



Products	Scale	Size	Cat. No.	Type
Exgene™ Blood SV	mini	100/250	105-101/105-152	spin/vacuum
Exgene™ Blood SV	Midi	26/100	105-226/105-201	
Exgene™ Blood SV	MAXI	10/26	105-310/105-326	



## Exgene™ Stool DNA mini

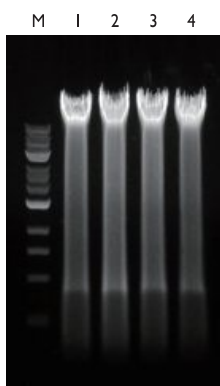
For the isolation of DNA from stool

### [ Features ]

- Spin column format
- Accurate and consistent host/microbial DNA extraction from fresh/frozen stool samples
- Purification of high-quality DNA by the use of EzPass™ Filter

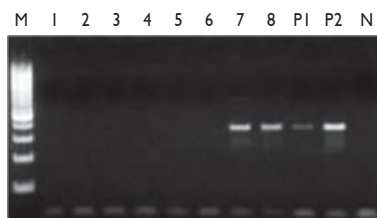
- No organic extraction or alcohol precipitation
- Stable and consistent yield
- Ready for use in PCR, restriction analysis, electrophoresis, and other downstream applications

### [ Performance ]



#### DNA Extraction from Chicken Cecum Stool

Genomic DNA was extracted from chicken cecum stool using the Exgene™ Stool DNA Mini Kit. Then, 5 µl out of the 50 µl eluate was loaded onto a 1.0% agarose gel.



#### PCR Amplification

1 µl of purified DNA from 150 mg of rotavirus infected stool samples, served as a template for amplification of gram positive bacteria. The extracted DNA works undiluted in a PCR reaction, indicating the successful removal of PCR inhibitors.

M : GeneSTA™ 1 kb ladder

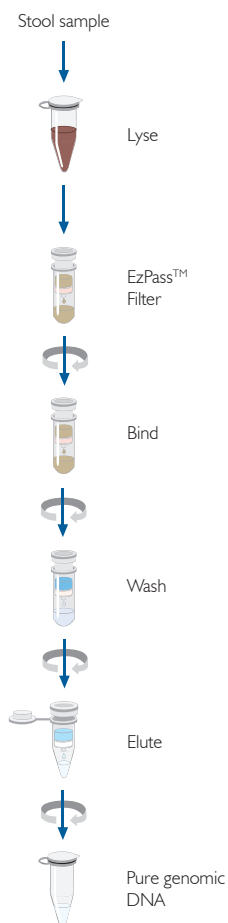
Lane 1~2 : A stool samples infected with Rotavirus Lane 3~4 : B stool samples infected with Rotavirus

Lane 5~6 : C stool samples infected with Rotavirus Lane 7~8 : D stool samples infected with Rotavirus

Lane P1, P2 : Positive control

Lane N : Negative control

\* In the absence of information regarding which samples contain gram-positive bacteria, it was observed that only Stool Sample D showed amplification. The PCR amplification result using the universal primer for gram-positive bacteria confirmed the suitability of the Exgene™ Stool mini kit for DNA extraction from gram-positive bacteria in stool samples.



Products	Scale	Size	Cat. No.	Type
Exgene™ Stool DNA mini	mini	50	115-150	spin

NEW

## Exgene™ Stool-Bead DNA

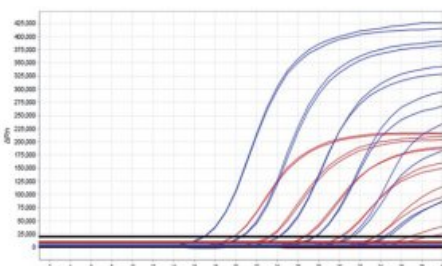
For the isolation of DNA from stool

### [ Features ]

- Spin column format
- Accurate and consistent host/microbial DNA extraction from fresh/frozen stool samples
- Easy and fast purification of high-quality DNA
- Efficient lysis step using Glass Bead Tube

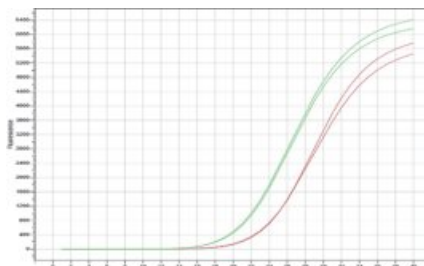
- No organic extraction or alcohol precipitation
- Stable and consistent yield
- Ready for use in PCR, Real-time PCR, restriction analysis, electrophoresis, and other downstream applications

### [ Performance ]



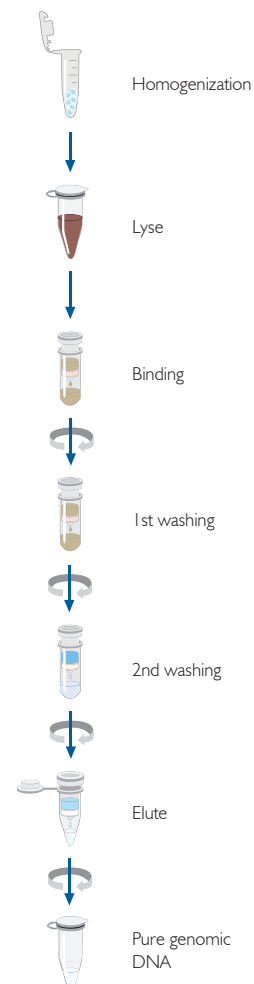
#### Real-Time PCR Amplification I

Real-time PCR was performed in replicates to assess the Salmonella DNA extracted from human stool using Exgene™ Stool-Bead DNA (in blue) and Supplier A (in red).



#### Real-Time PCR Amplification II

Real-time PCR was performed in replicates to assess GAPDH gene extracted from Salmonella-infected swine stool using Exgene™ Stool-Bead DNA (in blue) and Supplier A (in red).

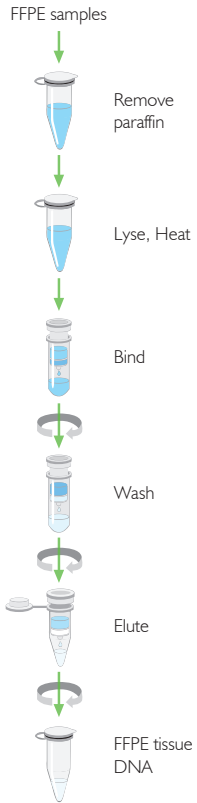


Products	Scale	Size	Cat. No.	Type
Exgene™ Stool-Bead DNA	mini	50	115-151	spin

# Exgene™ FFPE Tissue DNA

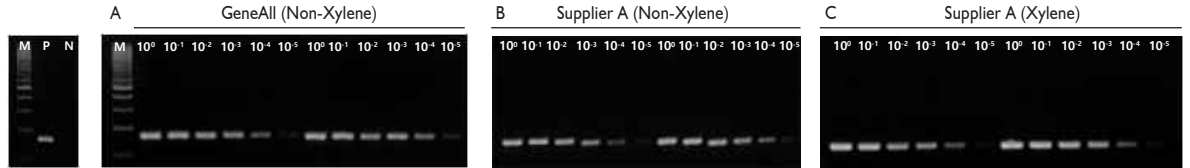
For the isolation of total DNA from Formalin Fixed and Paraffin Embedded (FFPE) specimen

in microcentrifuges



## [ Features ]

- Easy, convenient, and fast de-paraffinization with a single signature reagent in under 5 min
- Safer and odor-free environment with non-xylene based Buffer DP
- Guaranteed PCR product length up to 500 bp
- RNase A included for pure DNA



Comparison evaluation between Exgene™ FFPE Tissue DNA and Supplier A were performed through PCR with GAPDH primers. DNAs were purified from human cervix FFPE sample using both of Exgene™ FFPE Tissue DNA (Panel A) and Supplier A without (Panel B) and with xylene solution (Panel C) respectively.  
Lane P : Positive control-Jurkat gDNA as template  
Lane N : Negative control-no template

Products	Size	Cat. No.	Type
Exgene™ FFPE Tissue DNA	50	138-150	mini/spin
Exgene™ FFPE Tissue DNA	250	138-152	

# DirEx™/DirEx™ Fast

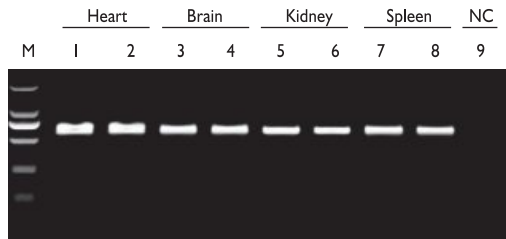
Tissue/Cultured cell/Whole blood/Blood stain/  
Hair/Buccal swab/Cigarette

For the preparation of PCR template from culture cells, blood, swab, hair, and etc.

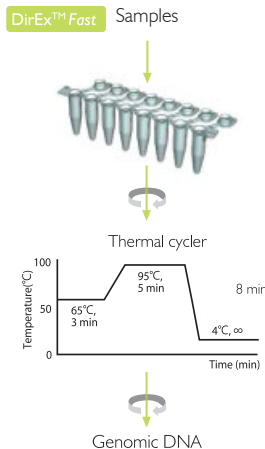
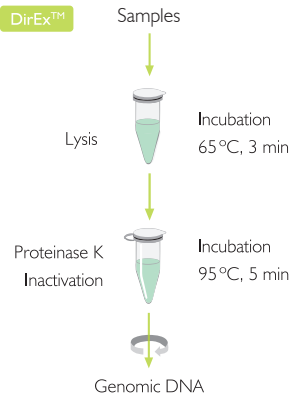
## [ Features ]

- Specially formulated buffer system as single tube
- PCR-template preparation solution
- Ready for PCR in just 8 min
- Easy and simple procedure : Only two steps
- Stable and consistent result
- Instant use : No need of additional reagents
- Pre-mixed format for minimal handling : DirEx™ Fast
- Optimized protocols for various samples such as cell, tissue, hair, buccal swab, blood, and cigarette butts

## [ Performance ]



PCR analysis was carried out with DNA isolated by DirEx™ Fast-Tissue. Template DNA was extracted from mammalian tissues (rat) such as heart, brain, kidney, and spleen.  
NC : Negative control Primer : Beta-actin (rat)



Products	Size	Cat. No.	Type
DirEx™	100	250-101	solution
DirEx™ Fast - Tissue	96T	260-011	
DirEx™ Fast - Cultured cell	96T	260-021	
DirEx™ Fast - Whole blood	96T	260-031	
DirEx™ Fast - Blood stain	96T	260-041	
DirEx™ Fast - Hair	96T	260-051	
DirEx™ Fast - Buccal swab	96T	260-061	
DirEx™ Fast - Cigarette	96T	260-071	

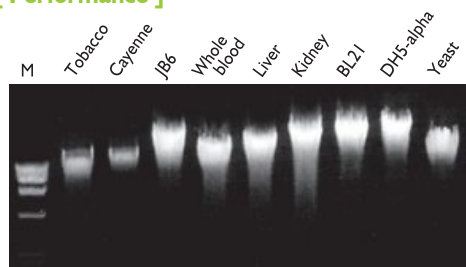
## GenEx™ Blood / Cell / Tissue

For the isolation of DNA from whole blood, cultured cells, animal tissues, and etc.

### [ Features ]

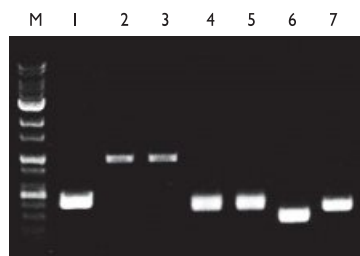
- Specially formulated buffer system
- DNA preparation from diverse samples : Whole blood, cultured cell, yeast, bacteria, animal tissues, and etc.
- Recovery of very high molecular weight DNA
- Rescalable preparation depending on sample amount
- No organic extraction
- High purity : Ready for PCR, southern blotting, and other downstream applications

### [ Performance ]



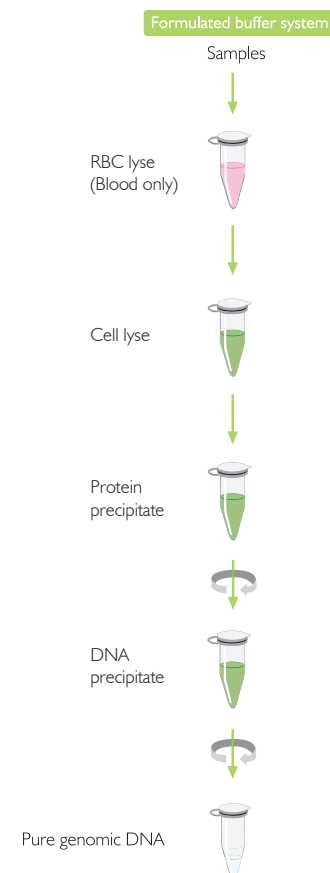
#### DNA Extraction from Various Samples

Genomic DNA prepared from several kinds of organism using GenEx™ series. 5 µl of eluate from each sample was loaded on 0.7% agarose gel.



#### PCR Amplification

PCR reaction was performed with purified DNA using GenEx™ series. Template DNA was isolated from tobacco (Lane 1), BL21 (Lane 2), DH5α (Lane 3), liver (Lane 4), kidney (Lane 5), whole blood (Lane 6), and JB6 (Lane 7). M : 1 kb ladder



Products	Scale	Size	Cat. No.	Type
GenEx™ Blood	Sx	100/500	220-101/220-105	solution
GenEx™ Blood	Lx	100	220-301	
GenEx™ Cell	Sx	100/500	221-101/221-105	
GenEx™ Cell	Lx	100	221-301	
GenEx™ Tissue	Sx	100/500	222-101/222-105	
GenEx™ Tissue	Lx	100	222-301	

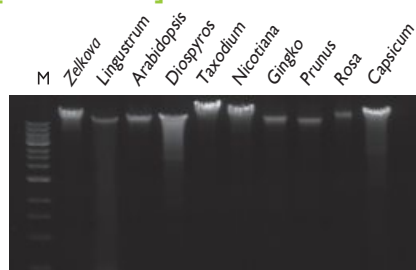
## GenEx™ Plant (Plus)

For the isolation of DNA from various plant samples

### [ Features ]

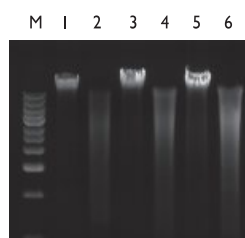
- Specially formulated buffer system
- DNA preparation from various plant samples
- Recovery of very high molecular weight DNA
- No organic extraction
- Rescalable preparation depending on sample amount
- High purity : Ready for PCR, southern blotting, and other downstream applications
- Simple separation of supernatant by EzSep™ Filter (Plus only)

### [ Performance ]



#### Genomic DNA Purification

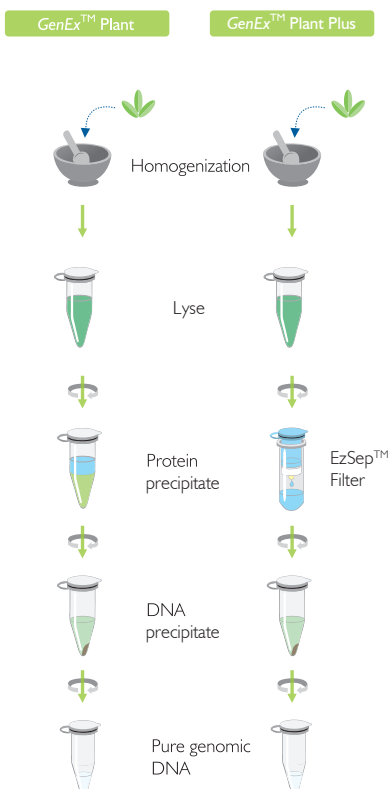
Total DNA prepared from various plant leaves using GenEx™ Plant kit. Each sample was extracted from 100 mg of tissue approximately. And 4 µl of purified DNA were resolved on 1.0% agarose gel. M : 1 kb DNA ladder



#### Restriction Enzyme Assay

Total DNA (Lane 1, 3, 5) purified from the leaves of several species using GenEx™ Plant was subjected to restricted digestion (Lane 2, 4, 6) by HindIII. Lane M : 1 kb DNA ladder  
Lane 1 : Zelkova Lane 3 : Taxodium Lane 5 : Nicotiana

Products	Scale	Size	Cat. No.	Type
GenEx™ Plant	Sx	100	227-101	solution
GenEx™ Plant	Mx	100	227-201	
GenEx™ Plant	Lx	100	227-301	
GenEx™ Plant Plus	Sx	100	228-101	
GenEx™ Plant Plus	Mx	50	228-250	
GenEx™ Plant Plus	Lx	20	228-320	



# Automated Nucleic Acid Extraction System

# ALlEx® 64

## Automated Nucleic Acid Extraction System

### [ Introducing the ALlEx® 64 System ]

ALlEx®64 is a compact but comprehensive Automated Nucleic Acid Extraction System, crafted by the exceptional expertise of GeneAll. This powerhouse enables rapid extraction of up to 64 samples in just 10 minutes, enhancing laboratory workflows.

In conjunction with dedicated reagent kits, it delivers high yield and purity of DNA, RNA or total nucleic acids from a variety of samples. The extracted nucleic acids are compatible with countless downstream applications including PCR, qPCR, qRT-PCR and sequencing.

### [ Key Features ]

**Rapid** : Nucleic acid extraction in 10 minutes

**Scalable for low or high throughput** : Extraction of 1 to 64 samples in individual tubes or 96-well plates

**Safe** : Protection against contamination with HEPA filter, UV lamp and ventilation fan

**Efficient** : Sample ID tracking and run history monitoring



### [ Technical Specification ]

Technology	Magnetic beads
Throughput	1 to 64 samples per run
Run time	10 minutes
Starting volume	Up to 400 $\mu$ l
Dimension (W x D x H)	420 x 599 x 440 mm
Weight	36.5 kg
Display	10.1" TFT LCD touch screen
Power input	200~240 Vac, 5 A, 50/60 Hz
Features	Auto Cassette Loader Auto Protocol Loading Onboard Barcode Scanner Reverse Loading Prevention Emergency Stop & Resume Hot Air Exhaust HEPA Filter UV Lamp Auto Mechanical Calibration Progress Bar Status Circle USB Interface Network Support with TCP/IP, Bluetooth, RS-232C

Category	Cat. No.	Products
Instrument	AEX064	ALlEx® 64 Automated Nucleic Acid Extraction System
	931-048	ALlEx® Genomic DNA Kit [48T]
Extraction Kits	931-096	ALlEx® Genomic DNA Kit [96T]
	934-048	ALlEx® Viral DNA/RNA Kit [48T]
	934-096	ALlEx® Viral DNA/RNA Kit [96T]
	935-048	ALlEx® Blood DNA Kit [48T]
	935-096	ALlEx® Blood DNA Kit [96T]
	937-048	ALlEx® Plant DNA/RNA Kit [48T]
	937-096	ALlEx® Plant DNA/RNA Kit [96T]
	948-048	ALlEx® Fecal DNA/RNA Kit [48T]
	948-096	ALlEx® Fecal DNA/RNA Kit [96T]

# GENTi™ ADVANCED

## Automated Nucleic Acid Extraction System



### [ Introducing the GENTi™ ADVANCED System ]

GENTi™ ADVANCED is an advanced automated nucleic acid extraction system designed to handle a diverse range of samples. It harnesses the advantages of proven magnetic bead technology while accommodating up to 32 samples per run.

GENTi™ ADVANCED provides three pre-programmed protocols (Fast, Standard and NGS-grade) for users to choose from, ensuring compatibility with their sample types and downstream applications.

With fully integrated and versatile pre-filled kits, GENTi™ ADVANCED ensures high-quality nucleic acid extraction across a wide range of downstream applications, including PCR, qPCR, qRT-PCR, and sequencing.

### [ Key Features ]

**Flexible** : Three pre-programmed kit protocols

**Versatile** : Suitable for a wide variety of samples such as blood, cell-free fluids, cells, tissues, swab and urines

**Convenience** : Ready-to-use pre-filled reagent

**Efficient** : Conically designed plate/tube, magnetic rod cover and heating block

### [ Technical Specification ]

Technology	Magnetic beads
Throughput	1 to 32 samples per run
Run time	Fast : (17' 46") / Standard : (29' 35") / NGS-grade : (42' 12")
Starting volume	Up to 400 $\mu$ l
Dimension (W x D x H)	350 x 430 x 435 mm
Weight	32.5 kg
Display	8" TFT LCD touch screen
Power input	100~240 Vac, 600 W, 50/60 Hz
Features	UV lamp Self-check start USB update

Category	Cat. No.	Products
Instrument	GT1032A	GENTi™ Advanced Automatic Extraction Equipment
	901-096A	GENTi™ Advanced Genomic DNA Extraction Kit [96T]
Extraction Kits	901-048A	GENTi™ Advanced Genomic DNA Extraction Kit [48T]
	902-096A	GENTi™ Advanced Viral DNA/RNA Extraction Kit [96T]
	902-048A	GENTi™ Advanced Viral DNA/RNA Extraction Kit [48T]
	903-096A	GENTi™ Advanced Blood DNA Extraction Kit [96T]
	903-048A	GENTi™ Advanced Blood DNA Extraction Kit [48T]
	904-096A	GENTi™ Advanced Plant DNA/RNA Extraction Kit [96T]
	904-048A	GENTi™ Advanced Plant DNA/RNA Extraction Kit [48T]
	906-096A	GENTi™ Advanced LMO Extraction Kit [96T]
	906-048A	GENTi™ Advanced LMO Extraction Kit [48T]
	913-096A	GENTi™ Advanced Fecal DNA/RNA Extraction Kit [96T]
	913-048A	GENTi™ Advanced Fecal DNA/RNA Extraction Kit [48T]

Products	Scale	Size	Cat. No.	Type
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### GeneAll® Hybrid-Q™ for rapid preparation of plasmid DNA

Plasmid Rapidprep	mini	50	100-150	spin
		200	100-102	

### GeneAll® Expres™ for preparation of plasmid DNA

Plasmid SV	mini	50	101-150	spin/	
		200	101-102	vacuum	
	Midi	26	101-226	spin/	
		50	101-250		vacuum
		100	101-201		
		100	101-201		

### GeneAll® Exfection™ for preparation of transfection-grade plasmid DNA

Plasmid LE (Low Endotoxin)	mini	50	111-150	spin/
		200	111-102	vacuum
	Midi	26	111-226	spin/
100		111-201	vacuum	
Plasmid EF (Endotoxin Free)	Midi	20	121-220	spin
		100	121-201	

### GeneAll® Expin™ for purification of fragment DNA

Gel SV	mini	50	102-150	spin/
		200	102-102	vacuum
PCR SV	mini	50	103-150	spin/
		200	103-102	vacuum
CleanUp SV	mini	50	113-150	spin/
		200	113-102	vacuum
Combo GP	mini	50	112-150	spin/
		200	112-102	vacuum

### GeneAll® Exgene™ for isolation of total DNA

Tissue SV	mini	100	104-101	spin/	
		250	104-152	vacuum	
	Midi	26	104-226	spin/	
		100	104-201	vacuum	
	MAXI	10	104-310	spin/	
		26	104-326	vacuum	
Tissue plus! SV	mini	100	109-101	spin/	
		250	109-152	vacuum	
	Midi	26	109-226	spin/	
		100	109-201	vacuum	
	MAXI	10	109-310	spin/	
		26	109-326	vacuum	
Blood SV	mini	100	105-101	spin/	
		250	105-152	vacuum	
	Midi	26	105-226	spin/	
		100	105-201	vacuum	
	MAXI	10	105-310	spin/	
		26	105-326	vacuum	
Cell SV	mini	100	106-101	spin/	
		250	106-152	vacuum	
	MAXI	10	106-310	spin/	
		26	106-326	vacuum	
	Clinic SV	mini	100	108-101	spin/
			250	108-152	vacuum
Midi		26	108-226	spin/	
		100	108-201	vacuum	
MAXI		10	108-310	spin/	
		26	108-326	vacuum	
Genomic DNA micro		50	118-050	spin	
Plant SV	mini	100	117-101	spin/	
		250	117-152	vacuum	
	Midi	26	117-226	spin/	
		100	117-201	vacuum	
	MAXI	10	117-310	spin/	
		26	117-326	vacuum	
Soil DNA mini	mini	50	114-150	spin	
Stool DNA mini	mini	50	115-150	spin	
Stool-Bead DNA mini	mini	50	115-151	spin	
Viral DNA/RNA	mini	50	128-150	spin	
FFPE Tissue DNA	mini	50	138-150	spin	
		250	138-152		

Products	Scale	Size	Cat. No.	Type
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### GeneAll® GenEx™ for isolation of total DNA without spin column

GenEx™ Blood	Sx	100	220-101	solution
		500	220-105	
	Lx	100	220-301	solution
		100	221-101	
GenEx™ Cell	Sx	100	221-101	solution
		500	221-105	
	Lx	100	221-301	solution
		100	222-101	
GenEx™ Tissue	Sx	100	222-101	solution
		500	222-105	
	Lx	100	222-301	solution
		100	227-101	
GenEx™ Plant	Mx	100	227-201	solution
		100	227-301	
	Sx	100	228-101	solution
		Mx	50	
GenEx™ Plant Plus	Lx	20	228-320	solution

### GeneAll® DirEx™ series for preparation of PCR-template without extraction

DirEx™		100	250-101	solution
DirEx™ Fast-Tissue	96 T		260-011	solution
DirEx™ Fast-Cultured cell	96 T		260-021	solution
DirEx™ Fast-Whole blood	96 T		260-031	solution
DirEx™ Fast-Blood stain	96 T		260-041	solution
DirEx™ Fast-Hair	96 T		260-051	solution
DirEx™ Fast-Buccal swab	96 T		260-061	solution
DirEx™ Fast-Cigarette	96 T		260-071	solution

### GeneAll® RNA series for preparation of total RNA

RiboEx™	mini	100	301-001	solution
		200	301-002	
Hybrid-R™	mini	100	305-101	spin
Hybrid-R™ Blood RNA	mini	50	315-150	spin
Hybrid-R™ miRNA	mini	50	325-150	spin
RiboEx™ LS	mini	100	302-001	solution
		200	302-002	
Riboclear™	mini	50	303-150	spin
Riboclear™ Plus	mini	50	313-150	spin
Ribospin™	mini	50	304-150	spin
Ribospin™ II	mini	50	314-150	spin
		300	314-103	
Ribospin™ vRD	mini	50	302-150	spin
Ribospin™ vRD Plus	mini	50	312-150	spin
Ribospin™ vRD II	mini	50	322-150	spin
Ribospin™ Plant	mini	50	307-150	spin
Ribospin™ Seed/Fruit	mini	50	317-150	spin
Ribospin™ Pathogen/TNA	mini	50	341-150	spin
		250	341-152	
Allspin™	mini	50	306-150	spin
RiboSaver™	mini	100	351-001	solution

### GeneAll® AmpONE™ for PCR amplification

Taq DNA polymerase		250 U	501-025	(2.5 U/μl)
		500 U	501-050	
		1,000 U	501-100	
Taq Premix		20 μl x 96 tubes	526-200	solution
		50 μl x 96 tubes	526-500	

### GeneAll® AmpMaster™ for PCR amplification

Taq Master mix		0.5 ml x 2 tubes	541-010	solution
		0.5 ml x 10 tubes	541-050	solution

Products	Scale	Size	Cat. No.	Type
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### GeneAll® HyperScript™ for Reverse Transcription

Reverse Transcriptase		10,000 U	601-100	solution
RT Master mix		0.5 ml x 2 tubes	601-710	solution
One-step RT-PCR Master mix		0.5 ml x 2 tubes	602-110	solution
One-step RT-PCR Premix		20 μl x 96 tubes	602-102	solution

### GeneAll® RealAmp™ for qPCR amplification

SYBR qPCR Master mix (2X, Low ROX)	200 rxn	2 ml	801-020	solution
	500 rxn	5 ml	801-050	
SYBR qPCR Master mix (2X, High ROX)	200 rxn	2 ml	801-021	solution
	500 rxn	5 ml	801-051	

### GeneAll® Protein series

ProteinEx™ Animal cell/tissue	100 ml	701-001	solution
PAGESTA™ Reducing 5X SDS-PAGE Sample Buffer	1 ml x 10 tubes	751-001	solution

### GeneAll® GENTz™ ADVANCED Newly designed automated extraction system

Automatic extraction equipment		GTI032A	system
Genomic DNA	48	901-048A	tube
	96	901-096A	plate
Viral DNA/RNA	48	902-048A	tube
	96	902-096A	plate
Blood DNA	48	903-048A	tube
	96	903-096A	plate
Plant DNA/RNA	48	904-048A	tube
	96	904-096A	plate
LMO	48	906-048A	tube
	96	906-096A	plate
Fecal DNA/RNA	48	913-048A	tube
	96	913-096A	plate

### GeneAll® ALLEX® 64 Compact yet Comprehensive automated extraction system

Automatic extraction equipment		AEX064	system
Genomic DNA	48	931-048A	tube
	96	931-096A	plate
Viral DNA/RNA	48	934-048A	tube
	96	934-096A	plate
Blood DNA	48	935-048A	tube
	96	935-096A	plate
Plant DNA/RNA	48	937-048A	tube
	96	937-096A	plate
Fecal DNA/RNA	48	948-048A	tube
	96	948-096A	plate

