

Cica Geneus[®] Purification Kit Series



Cica Geneusa[®] Purification Kit help with successful experiments!



Product Information

Product No.	Product Name	Stored at	Size
08197-96	Cica Geneus [®] DNA Prep Kit (for Blood & Tissue)	RT	100 preps
08204-96	Cica Geneus [®] Total DNA Prep Kit (for Tissue)	RT	100 preps
08204-97			250 preps
08202-96	Cica Geneus [®] DNA Prep Kit (for Plant)	RT	100 preps
08203-96	Cica Geneus [®] DNA Prep Kit (for Stool)	RT	50 preps
08207-96	Cica Geneus [®] Plasmid Prep Kit	RT	50 preps
08207-97			200 preps
08206-96	Cica Geneus [®] PCR Prep Kit	RT	50 preps
08208-96	Cica Geneus [®] Gel Prep Kit	RT	50 preps
08111-96	Cica Geneus [®] PCR & Gel Prep Kit	RT	50 preps
08111-97			200 preps
08215-96	Cica Geneus [®] DNA/RNA Prep Kit (for Virus)	2~8 °C	50 preps
08057-96	Cica Geneus [®] RNA Prep Kit (for Tissue)	RT	50 preps
08058-96	Cica Geneus [®] RNA Prep Kit (for Plant)	RT	50 preps

Cica Geneus[®] Purification Kit Appearance

**Each buffers have a inner lid
Reduce the contamination risk !!**

We provide the most suitable columns depending on various samples !!
















**Columns for DNA are packed in the box.
Columns for RNA are packed in the blister to prevent contamination !!**

Type D Type F Type G Type Q Type V Type W










Product Name	Binding capacity	Minimum elution volume	Yield/Recovery	Operation time
Cica Geneus [®] DNA Prep Kit (for Blood & Tissue)	60 µg	30 µL	20~60 µg	25~220 min
Cica Geneus [®] Total DNA Prep Kit (for Tissue)	50 µg	30 µL	5~50 µg	25~220 min
Cica Geneus [®] DNA Prep Kit (for Plant)	40 µg	30 µL	4~40 µg	~40 min
Cica Geneus [®] DNA Prep Kit (for Stool)	100 µg	30 µL	5~100 µg	~25 min
Cica Geneus [®] Plasmid Prep Kit	30 µg	40 µL	85~95%	~23 min
Cica Geneus [®] PCR & Gel Prep Kit or PCR Prep Kit	10 µg	30 µL	90~95% (100 bp~10 kb)	~5 min
Cica Geneus [®] PCR & Gel Prep Kit or Gel Prep Kit	10 µg	30 µL	70~85% (80 bp~10 kb)	~15 min
Cica Geneus [®] DNA/RNA Prep Kit (for Virus)	100 µg	30 µL	—	~20 min
Cica Geneus [®] RNA Prep Kit (for Tissue)	100 µg	40 µL	~20 µg (cell) ~50 µg (Tissue)	~15 min
Cica Geneus [®] RNA Prep Kit (for Plant)	100 µg	30 µL	~50 µg	~25 min

Cica Geneus[®] Purification Kit Selection Guide

Meaning of the icons

 Animal Tissue/Mouse tail	 Mammalian whole blood	 Callus	 PCR products
 Cultured cells	 Insect / Worm	 Fungi	 Agarose gel
 Gram(+) bacteria	 Buccal swab/Buffy coat/ Hair/Body fluid/Saliva/ Sperm	 Stool	 Cultured cells/Plasma/ Serum/swab/Urine
 Gram(-) bacteria	 Plant cells/Plant tissue	 Escherichia coli	

Selection Guide

Type of the nucleic acid		Sample		Recommended product
DNA	Genome	Whole blood	Animal tissue	Cica Geneus [®] DNA Prep Kit (for Blood & Tissue) 
		Insect/Worm	Cultured cells	
		Mouse tail	Gram(-) bacteria	
		Animal tissue	Buffy coat	
	Cultured cell	Hair		
	Gram(+) bacteria	Body fluid		
	Gram(-) bacteria	Saliva		
Whole blood	Sperm	Cica Geneus [®] DNA Prep Kit (for Plant) 		
Buccal swab	Mouse tail			
Streptococcus pneumoniae		Cica Geneus [®] DNA Prep Kit (for Stool) 		
Plasmid	Escherichia coli	Cica Geneus [®] Plasmid Prep Kit 		
Fragment DNA	PCR products		Cica Geneus [®] PCR & Gel Prep Kit or PCR Prep Kit 	
		Agarose gel	Cica Geneus [®] PCR & Gel Prep Kit or Gel Prep Kit 	
DNA/RNA	Viral nucleic acid	Cultured cells	Swab	Cica Geneus [®] DNA/RNA Prep Kit (for Virus) 
RNA	total RNA	Plasma	Urine	
		Serum		
		Animal tissue	Bacteria	Cica Geneus [®] RNA Prep Kit (for Tissue) 
		Cultured cells		
		Whole blood cell		
		Plant cells		Cica Geneus [®] RNA Prep Kit (for Plant) 
		Plant tissue		

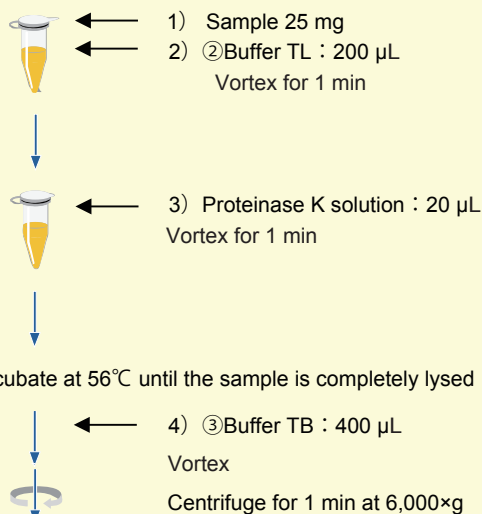


Cica Geneus[®] DNA Prep Kit (for Blood & Tissue)

Product No.	Size
08197-96	100 preps

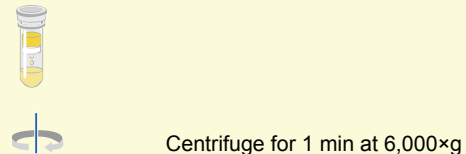
Protocol for Animal Tissue

Lyse

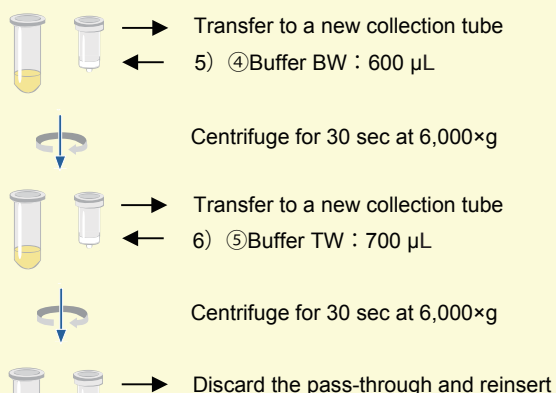


Bind

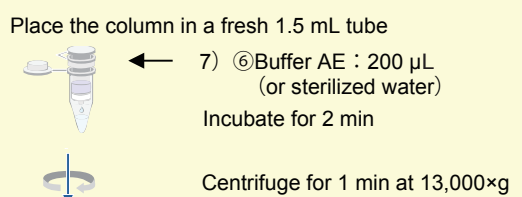
Transfer the mixture to the Gene All SV Column type G



Wash



Elute



DNA solution

Cica Geneus[®] DNA Prep Kit (for Blood & Tissue) provides a simple and rapid method for the isolation of total DNA from animal tissues, whole blood, and cultured cells. The pure DNA can be acquired and this can be directly used in various applications such as PCR, Southern blotting and other enzymatic reactions.

Specifications

Sample size	Liquid : 300 µL Solid : 25 mg
Maximum loading volume	750 µL
Binding capacity	60 µg
Elution volume	30~400 µL

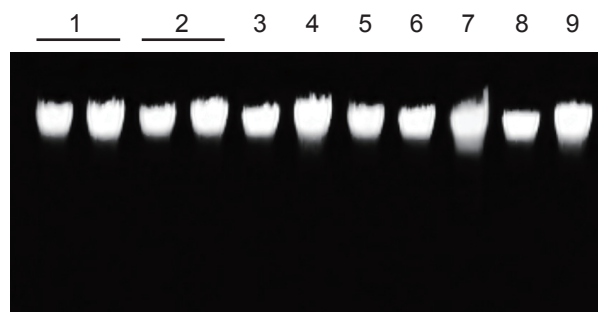
Kit Contents

Contents name	size
GeneAll SV Column Type G (with collection tube)	50 ×2
Collection tube	100 ×2
① Buffer RL	100 mL×1
② Buffer TL	30 mL×1
③ Buffer TB	50 mL×1
④ Buffer BW	80 mL×1
⑤ Buffer TW	100 mL×1
⑥ Buffer AE	30 mL×1
⑦ Proteinase K	48 mg×1
⑧ Storage Buffer	4 mL×1

DNA Purification from various samples

DNA prepared from several kind of animal tissue using Cica Geneus[®] DNA Prep Kit (for Blood & Tissue). Elution was performed with 100 µL of ⑥ Buffer AE.

8 µL of eluates was resolved on 0.8 % agarose gel.



Lane 1 : Liver (rat)
Lane 2 : Kidney (rat)
Lane 3 : Brain (rat)
Lane 4 : Spleen (rat)
Lane 5 : Lung (rat)
Lane 6 : Heart (rat)
Lane 7 : NIH/3T3 cell
Lane 8 : Blood (bovine)
Lane 9 : Liver (bovine)



Cica Geneus[®] Total DNA Prep Kit (for Tissue)

Product No.	Size
08204-96	100 preps
08204-97	250 preps

Related reagent

Product No.	Product Name	Size
14032-08	Ethanol (99.5)	500 mL


Cica Geneus[®] Total DNA Prep Kit (for Tissue) provides an easy and rapid method for the isolation of total DNA such as genomic, mitochondrial, bacterial, parasite or viral DNA from various samples including tissues, whole blood, cultured cells, and body fluids. The purified DNA is suitable for PCR, Southern blotting other enzymatic reactions, and etc.

Specifications


Sample size	Liquid : 200 µL Solid : 20 mg
Maximum loading volume	700 µL
Binding capacity	50 µg
Elution volume	30~400 µL

Protocol for Cultured Cell

Lyse

- 
- 1) Proteinase K solution : 20 µL
 - 2) Sample : 200 µL
 - 3) ② Buffer BL : 200 µL
- Vortex

Incubate at 56°C until the sample is completely lysed

- 
- 4) Ethanol : 200 µL (not provided)
- Vortex
- Spin down


Bind

Transfer the mixture to the Gene All SV Column type G




Wash


Centrifuge for 1 min at 6,000×g

- 
- 5) ③ Buffer BW : 600 µL

Centrifuge for 30 sec at 6,000×g

- 
- 6) ④ Buffer TW : 700 µL


Centrifuge for 1 min at 6,000×g

- 
- Discard the pass-through and reinsert

Elute

Centrifuge for 30 sec at full speed

Place the column in a fresh 1.5 mL tube

- 
- 7) ⑤ Buffer AE : 200 µL (or sterilized water)
- Incubate for 1 min

Centrifuge for 1 min at 13,000×g

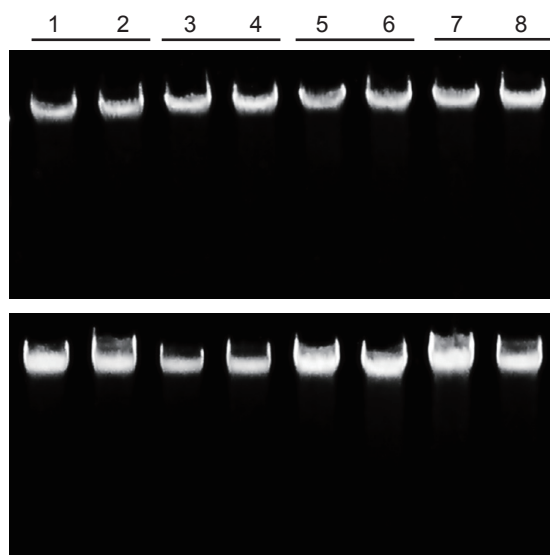
DNA solution

Kit Contents

Contents name	Size	
	100 preps	250 preps
GeneAll SV Column Type G (with collection tube)	50×2	50×5
Collection tube	100×2	250×2
① Buffer CL	25 mL×1	60 mL×1
② Buffer BL	25 mL×1	60 mL×1
③ Buffer BW	80 mL×1	220 mL×1
④ Buffer TW	100 mL×1	250 mL×1
⑤ Buffer AE	30 mL×1	60 mL×1
⑥ Proteinase K	48 mg×1	120 mg×1
⑦ Storage Buffer	4 mL×1	7 mL×1

DNA purification from Whole blood

DNA purified from whole blood using Cica Geneus[®] Total DNA Prep Kit (for Tissue) was resolved on 0.8 % agarose gel.



Lane 1,2 : Upper human blood A Lower rat blood A
 Lane 3,4 : Upper human blood B Lower rat blood B
 Lane 5,6 : Upper human blood C Lower rat blood C
 Lane 7,8 : Upper human blood D Lower rat blood D



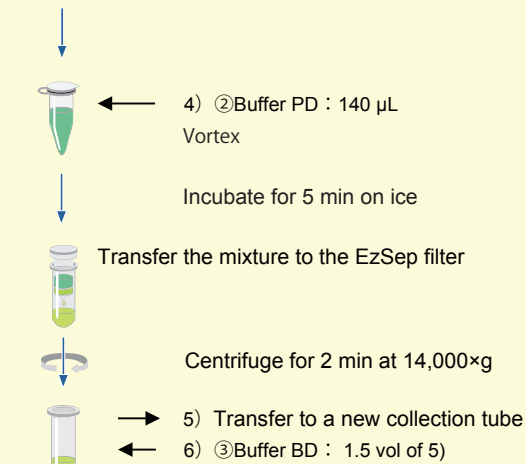
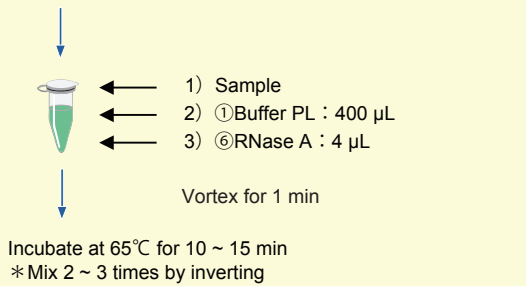
Cica Geneus[®] DNA Prep Kit (for Plant)

Product No.	Size
08202-96	100 preps

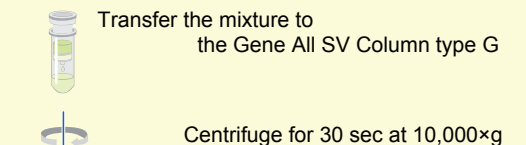
Protocol for Plant tissue

Lyse

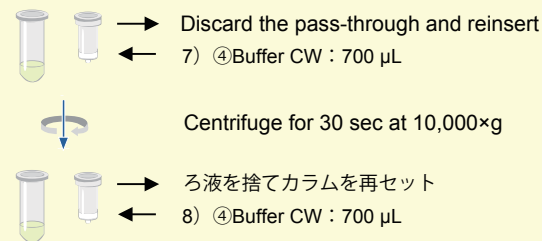
Grind fresh (~100 mg) or frozen plant tissue (~25 mg) to a fine powder quickly and completely, using a mortar and pestle pre-cooled with liquid nitrogen



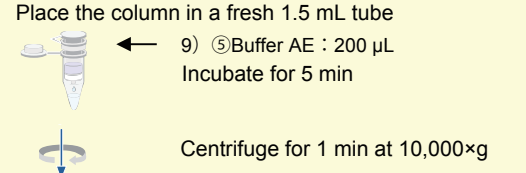
Bind



Wash



Elute



DNA solution

Cica Geneus[®] DNA Prep Kit (for Plant) provides an easy and rapid method for the isolation of total DNA from various Plant. With EzSep filter and Column typeG, the procedure can be done in just 40 minutes (mini). The purified DNA is suitable for PCR, Southern blotting other enzymatic reactions, and etc.

Specifications

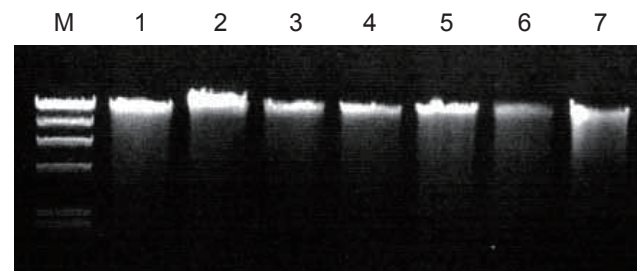
Sample size	Wet : 100 mg Dry : 25 mg
Maximum loading volume	750 µL
Binding capacity	40 µg
Elution volume	30~400 µL

Kit Contents

Contents name	Size
GeneAll SV Column Type G (with collection tube)	50×2
EzSep filter (with collection tube)	50×2
① Buffer PL	100 mL×1
② Buffer PD	30 mL×1
③ Buffer BD	110 mL×1
④ Buffer CW	150 mL×1
⑤ Buffer AE	60 mL×1
⑥ RNase A (100 mg/ml)	480 µL×1

DNA Purification from various samples

DNA was purified from each 100 mg of various samples Cica Geneus[®] DNA Prep Kit (for Plant). Elution was performed with 100 µL of ⑤ Buffer AE. 5 µL of eluates was resolved on 0.8 % agarose gel.



M : Ladder

Lane 1 : Pine

Lane 2 : Tobacco

Lane 3 : Barely

Lane 4 : Cycad

Lane 5 : Cayenne

Lane 6 : Arabidopsis

Lane 7 : Potato




Cica Geneus[®] DNA Prep Kit (for Stool)

Product No.	Size
08203-96	50 preps


Protocol for Stool

Lyse 2.0 mL tube




- 1) Sample : ~200 mg
- 2) ①Buffer PBS : 1 mL
Vortex for 1 min
Incubate for 30 sec

Transfer the supernatant to a new 2.0 mL tube




- 3) Discard the supernatant



- 4) ②Buffer FL : 1.3 mL


Resuspend the pellet by pipetting
Incubate for 5 min
Centrifuge for 5 min at 10,000×g

Transfer the mixture to Gene All EzPass filter




Centrifuge for 1 min at 10,000×g

Transfer the Gene All EzPass filter to the new 1.5 mL tube



- 5) ③Buffer EB : 100 µL
Incubate for 1 min


Centrifuge for 1 min at 10,000×g



- 6) ④Buffer PB : 500 µL
Resuspend the pellet by pipetting


Bind

Transfer the mixture to Gene All SV Column type G




Centrifuge for 1 min at 10,000×g

Wash



- 7) ⑤Buffer NW : 500 µL


Centrifuge for 1 min at 10,000×g



Centrifuge for 1 min at 10,000×g

Elute

Place the column in a fresh 1.5 mL tube



- 8) ③Buffer EB : 50 µL
Incubate for 1 min

Centrifuge for 1 min at 10,000×g

DNA solution

Cica Geneus[®] DNA Prep Kit (for Stool) provides an easy and rapid method for the isolation of DNA from stool samples. The purified DNA is suitable for PCR, Southern blotting other enzymatic reactions, and etc.

Specifications

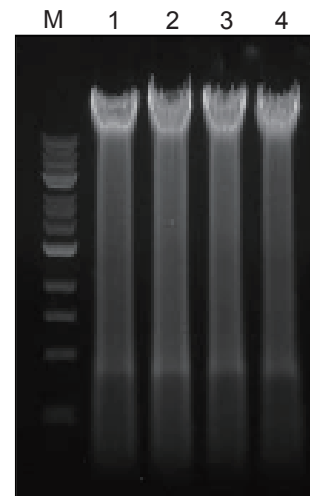
Sample size	200 mg (Stool)
Maximum loading volume	700 µL
Binding capacity	100 µg
Elution volume	30~200 µL

Kit Contents

Contents name	Size
GeneAll SV Column Type G (with collection tube)	50 ×1
GeneAll EzPass filter (with collection tube)	50 ×1
1.5 ml tube	50 ×2
2.0 ml tube	50 ×2
①Buffer PBS	60 mL×1
②Buffer FL	70 mL×1
③Buffer EB	15 mL×1
④Buffer PB	30 mL×1
⑤Buffer NW	30 mL×1

DNA purification from Chicken stool

DNA was purified from Chicken stool, using Cica Geneus[®] DNA Prep Kit (for Stool). Elution was performed with 50 µL of ③Buffer EB. 3 µL of eluates was resolved on 1.0 % agarose gel.



Lane 1-4 : Chicken stool
M : 1kb Ladder





Cica Geneus[®] Plasmid Prep Kit

Product No.	Size
08207-96	50 preps
08207-97	200 preps

Protocol




Lyse

- 
- 1) Sample (bacterial cultures) : 5 mL
- Centrifuge for 1 min at full speed
- 
- 2) ① Buffer S1 : 250 μ L
Resuspend the pellet by pipetting
 - 3) ② Buffer S2 : 250 μ L
Mix 2 ~ 3 times by inverting
 - 4) ③ Buffer S3 : 350 μ L
Mix 2 ~ 3 times by inverting
- Centrifuge for 10 min at 10,000 \times g



Bind

Transfer the supernatant to Gene All SV Column type Q

Wash

- 
- Centrifuge for 30 sec at 10,000 \times g
- 
- 5) ④ Buffer AW : 500 μ L
- Discard the pass-through and reinsert
- Centrifuge for 30 sec at 10,000 \times g
- 
- 6) ⑤ Buffer PW : 700 μ L
- Discard the pass-through and reinsert

Elute

- 
- Centrifuge for 30 sec at 10,000 \times g
- Place the column in a fresh 1.5 mL tube
- 
- 7) ⑥ Buffer EB : 50 μ L
Incubate for 1 min
- Centrifuge for 1 min at 10,000 \times g

DNA溶液

Cica Geneus[®] Plasmid Prep Kit provides a convenient and rapid method for the isolation of plasmid DNA from bacterial cells. This kit eliminates the need of organic solvent extraction and alcohol precipitation, allowing rapid and convenient purification from many samples simultaneously. The purified DNA is suitable for PCR, cloning, automated sequencing, synthesis of labeled hybridization probes and other enzymatic reactions, and etc.

Specifications

Sample size	~10 mL
Maximum loading volume	800 μ L
Binding capacity	30 μ g
Elution volume	40~200 μ L

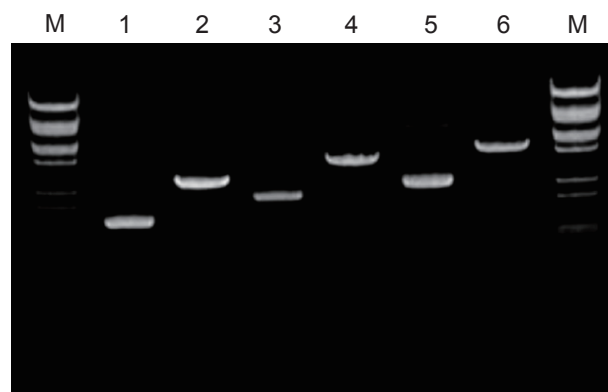
Kit Contents

Contents name	Size	
	100 preps	200 preps
GeneAll SV Column Type Q (with collection tube)	50 \times 1	50 \times 4
① Buffer S1	20 mL \times 1	60 mL \times 1
② Buffer S2	20 mL \times 1	60 mL \times 1
③ Buffer S3	25 mL \times 1	90 mL \times 1
④ Buffer AW	30 mL \times 1	110 mL \times 1
⑤ Buffer PW	60 mL \times 1	250 mL \times 1
⑥ Buffer EB	15 mL \times 1	30 mL \times 1
⑦ RNase A solution	100 μ L \times 1	300 μ L \times 1

* Add all of ⑦ RNase A Solution to ① Buffer S1 before first use.

Enzyme Digestion

Several kinds of plasmid DNA purified with Cica Geneus[®] Plasmid Prep Kit were subjected to digestion by restriction enzyme.



M : *Lambda-BatPI*

Lane 1 : pUC18

Lane 2 : pUC18, digested with *XbaI*

Lane 3 : pQE30

Lane 4 : pQE30, digested with *SmaI*

Lane 5 : pBluescript II SK (+)

Lane 6 : pBluescript II SK (+), digested with *XbaI*

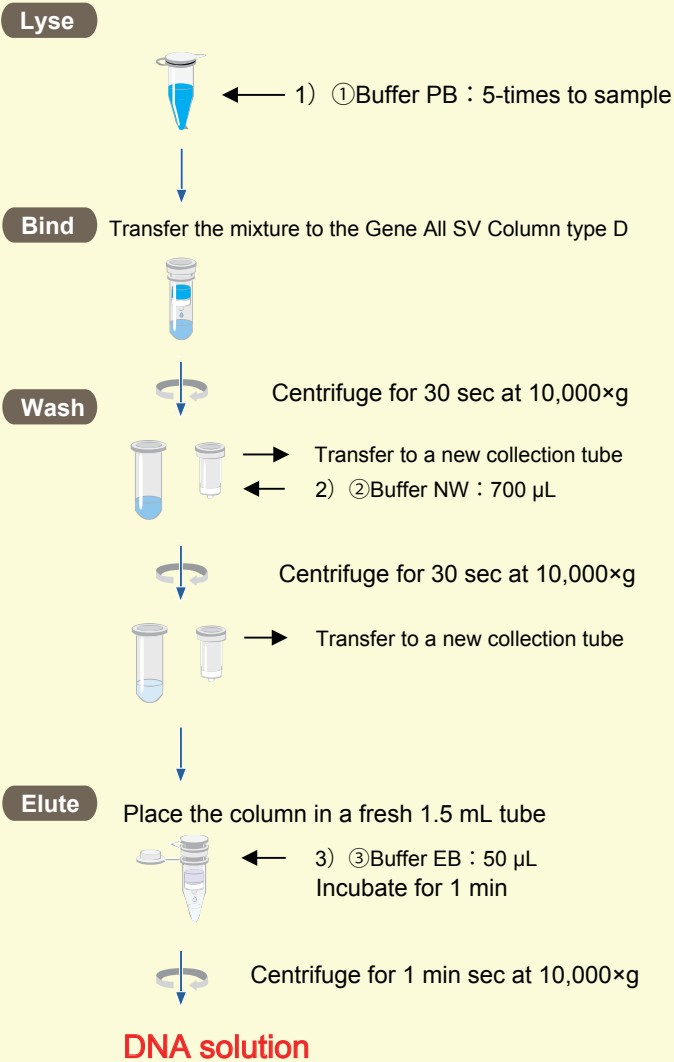


Cica Geneus[®] PCR Prep Kit

Product No.	Size
08206-96	50 preps

Cica Geneus[®] PCR Prep Kit is for purification of PCR product. It can recover wide range size of DNA (100 - 10 kb) and remove small DNA (< 100 bp) such as primer and primer-dimer. The purified DNA is suitable for sequencing, cloning and etc.

Protocol



Specifications

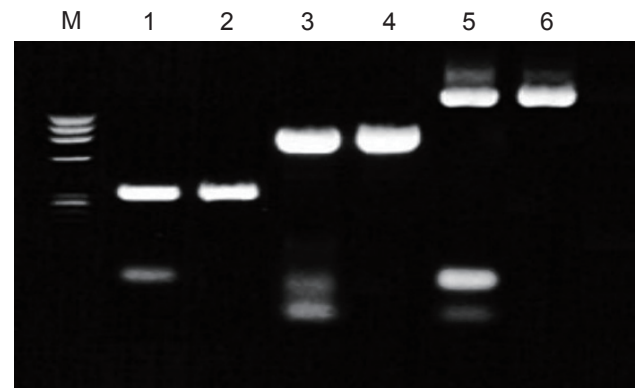
Sample volume	100 μL
Maximum loading volume	700 μL
Binding capacity	10 μg
Elution volume	30~200 μL

Kit Contents

Contents name	Size
GeneAll SV Column Type D (with collection tube)	50 ×1
① Buffer PB	30 mL×1
② Buffer NW	60 mL×1
③ Buffer EB	15 mL×1

PCR products : Before and After purification

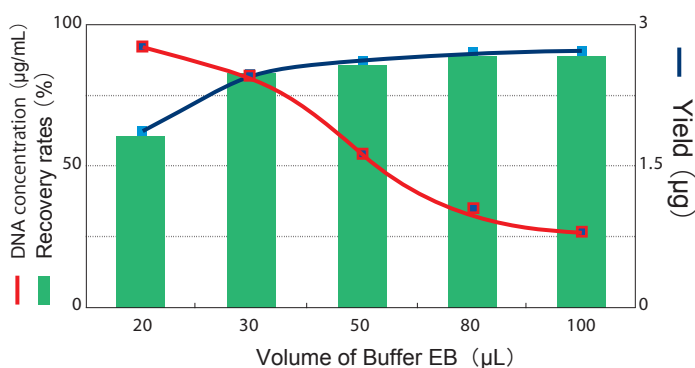
Valous size of PCR products were resolved on 1.0 % agarose gel.



M : *phi-x174-Hae* III
 Lane 1 : PCR product (312 bp) , Before purification
 Lane 2 : PCR product (312 bp) , After purification
 Lane 3 : PCR product (850 bp) , Before purification
 Lane 4 : PCR product (850 bp) , After purification
 Lane 5 : PCR product (1.6 kp) , Before purification
 Lane 6 : PCR product (1.6 kp) , After purification

Recovery rates (%)

Sample volume : 3 μg
 DNA size : 494 bp





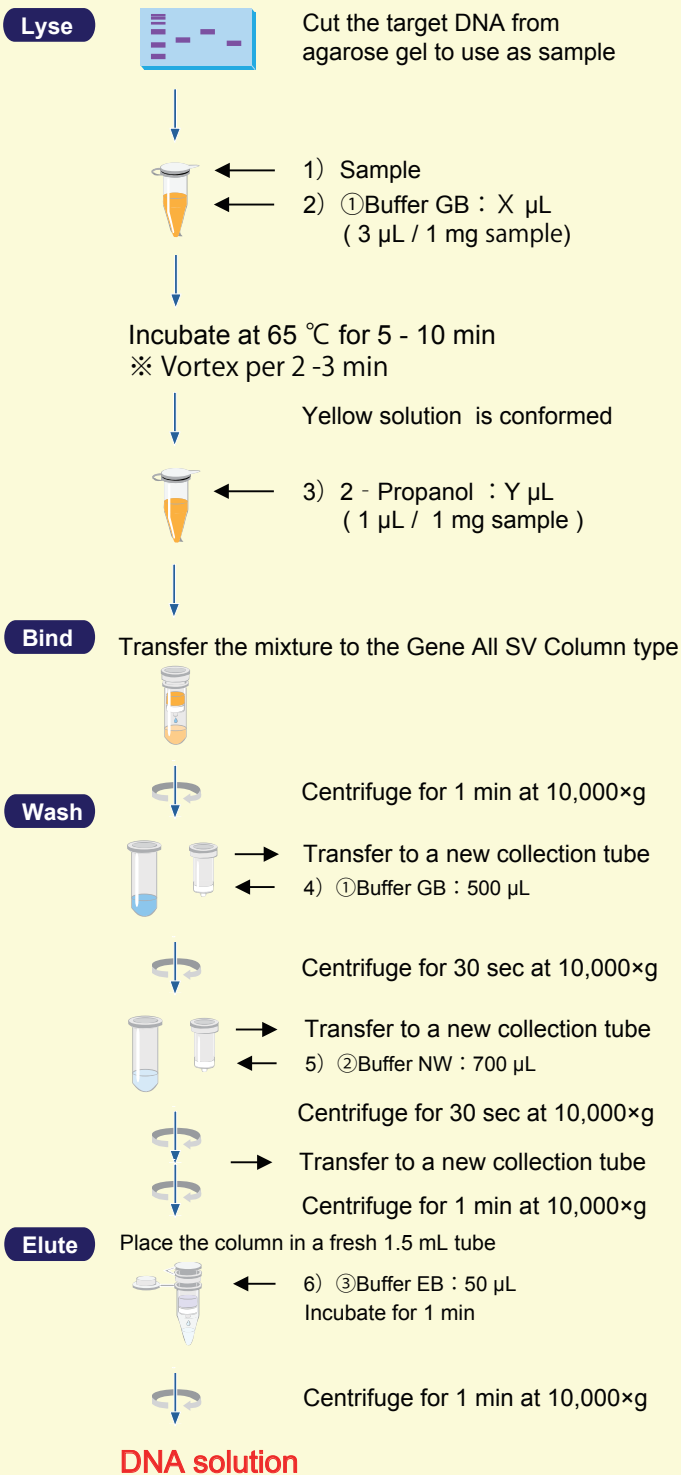
Cica Geneus[®] Gel Prep Kit

Product No.	Size
08208-96	50 preps

Related reagent

Product No.	Product Name	Size
32435-09	2-Propanol	500 mL

Protocol



Cica Geneus[®] Gel Prep Kit can provide easy and rapid method for purification from standard agarose gel using TAE, TBE Buffer and low-melting agarose gel.

It can purify wide range size of DNA (80 - 10 kb) from various grade agarose.

Specifications

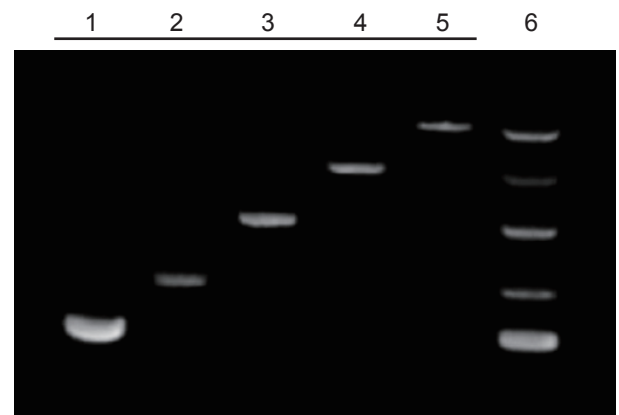
Sample volume (Agarose gel)	400 mg
Maximum loading volume	700 μ L
Binding capacity	10 μ g
Elution volume	30~200 μ L

Kit Contents

Contents name	Size
GeneAll SV Column Type D (with collection tube)	50×1
①Buffer GB	60 mL×1
②Buffer NW	60 mL×1
③Buffer EB	15 mL×1

DNA purification from agarose gel

Various size of DNA were resolved on agarose gel (TAE). Then, DNA were purified from agarose gel using Cica Geneus[®] Gel Prep Kit.



Lane 1 : DNA fragment (466 bp) , Before gel extraction / purification
Lane 2 : DNA fragment (782 bp) , Before gel extraction / purification
Lane 3 : DNA fragment (1.3 kb) , Before gel extraction / purification
Lane 4 : DNA fragment (2.3 kb) , Before gel extraction / purification
Lane 5 : DNA fragment (5.0 kb) , Before gel extraction / purification
Lane 6 : DNA fragment (466 bp, 782 bp, 1.3 kb, 2.3 kb, 5.0 kb)*

* Pooled sample from lane 1-5 after extraction / purification

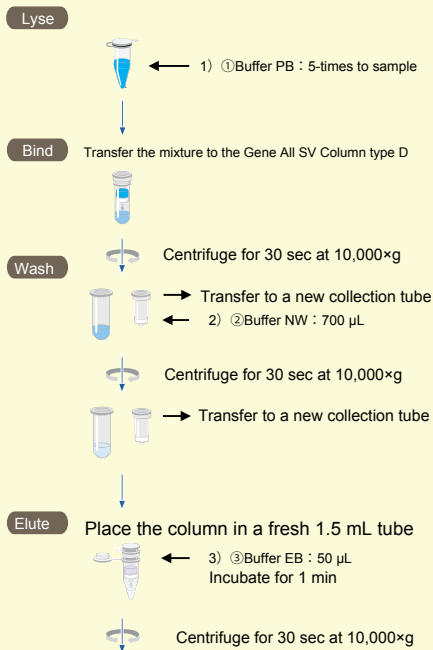


Cica Geneus[®] PCR & Gel Prep Kit

Product No.	Size
08111-96	50 preps
08111-97	200 preps

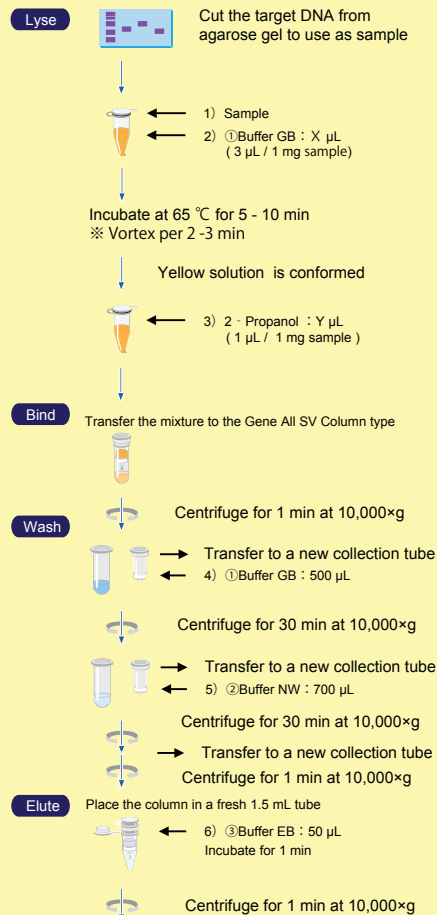
This product is a combination kit of Cica Geneus[®] PCR Prep Kit and Gel Prep Kit. You can purify PCR product by using Buffer PB and agarose gel sample by using Buffer GB.

Protocol for PCR product



DNA solution

Protocol for Agarose gel



DNA solution

Specifications

« Sample : PCR product »

Sample volume	100 μL
Maximum loading volume	700 μL
Binding capacity	10 μg
Elution volume	30~200 μL

« Sample : In agarose gel »

Sample volume (Agarose gel)	400 mg
Maximum loading volume	700 μL
Binding capacity	10 μg
Elution volume	30~200 μL

Kit Contents

Contents name	Size	
	50 preps	200 preps
GeneAll SV Column Type D (with collection tube)	50 ×1	50 ×4
① Buffer PB	30 mL×1	120 mL×1
② Buffer GB	60 mL×1	120 mL×2
③ Buffer NW	60 mL×1	250 mL×1
④ Buffer EB	15 mL×1	30 mL×1

Recovery rate from each samples (%)

Sample volume : 3 μg

Elution Buffer : Buffer EB (50 μL)

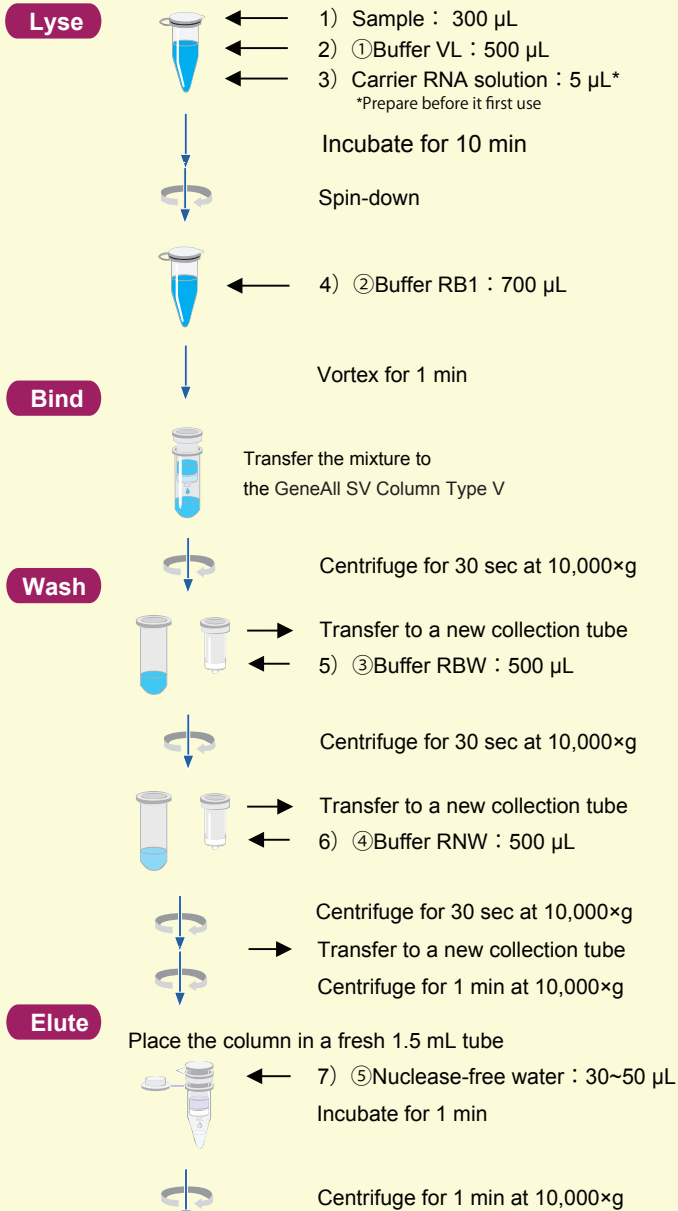
DNA Size (bp)	PCR product (%)	Agarose gel (%)
60	0	39
120	78	71
200	83	76
800	94	84
1,800	91	82
4,300	85	78
8,700	76	73



Cica Geneus[®] DNA/RNA Prep Kit (for Virus)

Product No.	Size
08215-96	50 preps

Protocol



DNA/RNA solution

Cica Geneus[®] Total DNA/RNA Prep Kit (for Viral) provides an easy and rapid method for the isolation of total DNA such as cell-free fluid, cell-culture supernatant, plasma, serum, swab, urine and virus-infected samples.

The purified DNA/RNA is suitable for PCR, RT-PCR and etc.

Specifications

Sample volume	300 μ L
Maximum loading volume	750 μ L
Binding capacity	100 μ g
Elution volume	30~50 μ L

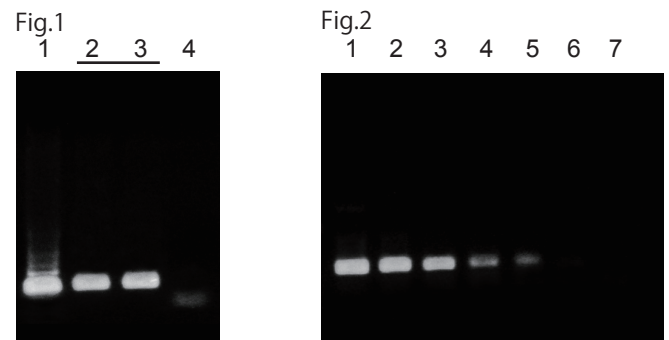
Kit Contents

Contents name	Size
GeneAll SV Column Type V (with collection tube)	50 \times 1
Collection tube	50 \times 1
① Buffer VL	30 mL \times 1
② Buffer RB1	40 mL \times 1
③ Buffer RBW	30 mL \times 1
④ Buffer RNW	30 mL \times 1
⑤ Nuclease-free water	15 mL \times 1
⑥ Carrier RNA	270 μ g \times 1

Amplification of HSV-1 (Herpes simplex virus) DNA

Fig.1 DNA was purified from cells infected by HSV-1 and HSV-1 samples using Cica Geneus[®] DNA/RNA Prep Kit (for Virus). Purified DNA was amplified by PCR and confirmed.

Fig.2 DNA was purified gradually diluted HSV-1 sample using Cica Geneus[®] DNA/RNA Prep Kit (for Virus). Purified DNA was amplified by PCR and confirmed.



Lane 1 : HSV-1 infected cell
Lane 2,3 : HSV-1 sample
Lane 4 : Negative control

Lane 1 : HSV-1 sample (6×10^4 pfu)
Lane 2 : HSV-1 sample (6×10^3 pfu)
Lane 3 : HSV-1 sample (6×10^2 pfu)
Lane 4 : HSV-1 sample (6×10 pfu)
Lane 5 : HSV-1 sample (6 pfu)
Lane 6 : Negative control (PCR)
Lane 7 : Negative control



Cica Geneus[®] RNA Prep Kit (for Tissue)

Product No.	Size
08057-96	50 preps

Related reagent

Product No.	Product Name	Size
25099-30	2 - Mercaptoethanol	25 g

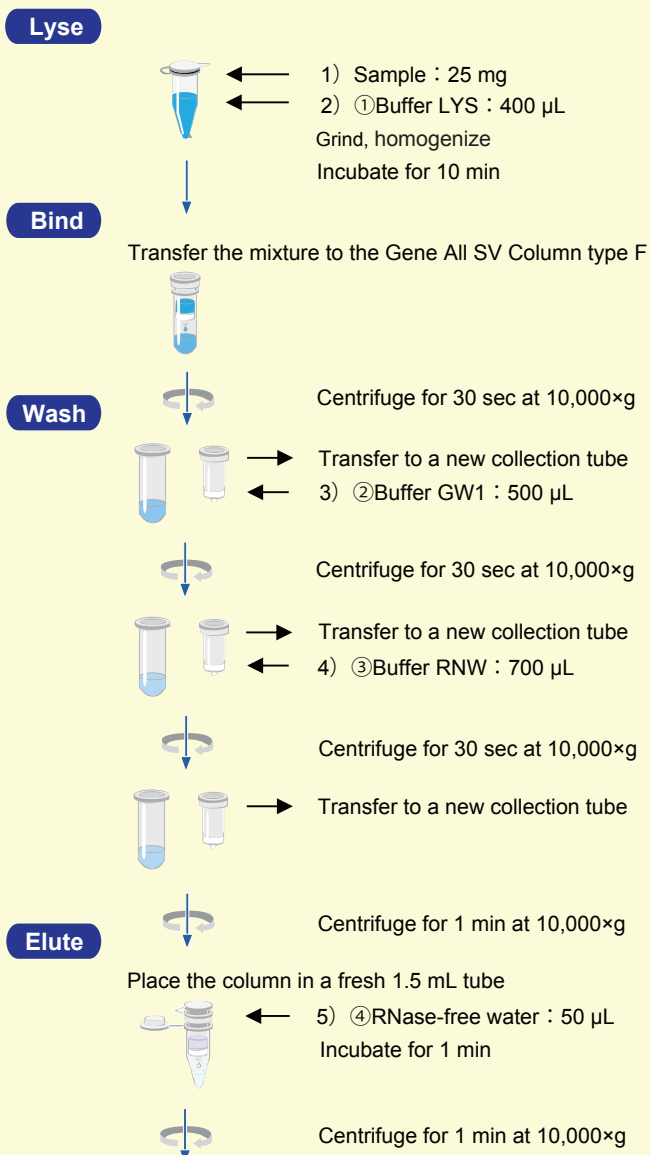
Cica Geneus[®] RNA Prep Kit (for Tissue) provides an easy and rapid method for the isolation of total RNA such as cultured cells, whole blood cells, animal tissues.

The purified RNA is suitable for cDNA synthesis, RT-PCR and etc.

Specifications

Sample size	Tissues : 25 mg Cells : 5×10 ⁶ cells
Maximum loading volume	750 μL
Binding RNA capacity	100 μg
Elution volume	40~100 μL

Protocol for Tissue



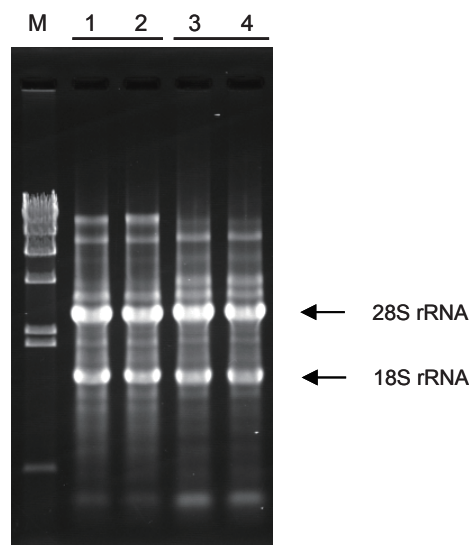
RNA solution

Kit Contents

Contents name	Size
GeneAll SV Column Type F (with collection tube)	50 ×1
1.5 mL tube	50 ×1
① Buffer LYS	30 mL×1
② Buffer GW1	35 mL×1
③ Buffer RNW	50 mL×1
④ RNase-free water	15 mL×1

RNA purification from HeLa cells

RNA purified from HeLa cells using Cica Geneus[®] RNA Prep Kit (for Tissue) and other company's products were resolved on 1.0 % agarose gel.



M : Ladder

Lane 1,2 : Cica Geneus[®] RNA Prep Kit (for Tissue)

Lane 3,4 : Competitive products



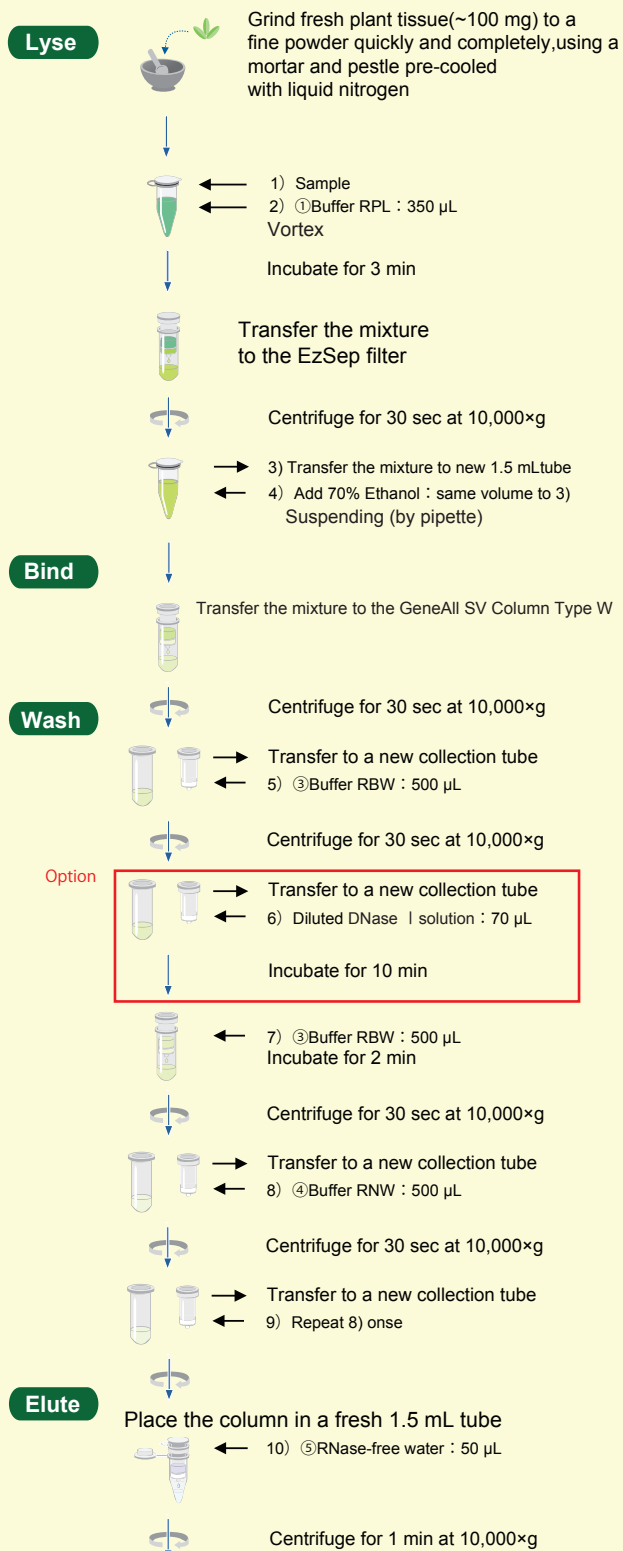
Cica Geneus[®] RNA Prep Kit (for Plant)

Product No.	Size
08058-96	50 preps

Optional reagent

Product No.	Product Name	Size
11497-96	DNase I (For Cica Geneus [®] Prep Kit)	50 preps

Protocol for Plant tissue



RNA solution

Cica Geneus[®] RNA Prep Kit (for Plant) provides an easy and rapid method for the isolation of total RNA such as leaves, stems and roots. It takes only 30 minute to remove various metabolites efficiently.

The purified RNA is suitable for cDNA synthesis, RT-PCR, northern blotting and etc.

Specifications

Sample size	100 mg
Maximum loading volume	700 μ L
Binding RNA capacity	100 μ g
Elution volume	30~100 μ L

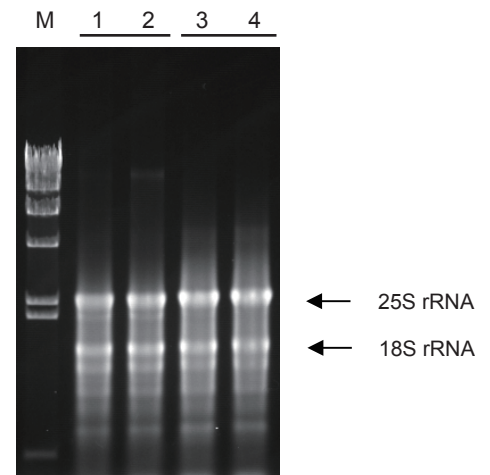
Kit Contents

Contents name	Size
GeneAll SV Column Type W (with collection tube)	50 \times 1
EzSep filter (with collection tube)	50 \times 1
1.5 mL tube	100 \times 1
① Buffer RPL	25 mL \times 1
② Buffer REL	25 mL \times 1
③ Buffer RBW	60 mL \times 1
④ Buffer RNW	60 mL \times 1
⑤ RNase-free water	15 mL \times 1
⑥ Buffer DRB	5 mL \times 1

* If you try DNase I treatment, please add DNase I (Product No. : 11497-96) to 70 μ L of ⑥ Buffer DRB before using .

RNA purification from Spinach

RNA purified from Spinash using Cica Geneus[®] RNA Prep Kit (for Plant) and other company's products were resolved on 1.0 % agarose gel.



M : Ladder

Lane 1,2 : Cica Geneus[®] RNA Prep Kit (for Plant)

Lane 3,4 : Other company's products

Related products ~Cica Geneus[®] Extraction Reagent Series~

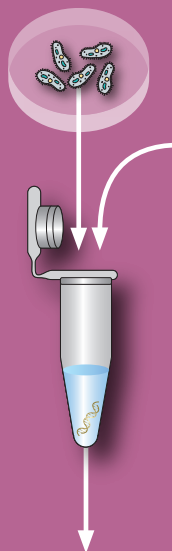
Cica Geneus[®] DNA Extraction Reagent
 product number 08178-96
 Standard version

Cica Geneus[®] DNA Extraction Reagent ST
 product number 08210-96
 Strong version

Cica Geneus[®] DNA Extraction Reagent AN
 product number 08199-96
 For animal version

Cica Geneus[®] RNA Extraction Reagent
 product number 08211-96
 For preparation of RT-PCR templete

Cica Geneus[®] Extraction is reagent for efficient extraction of genome DNA or total RNA from cells. You can prepare PCR templete in simple operation (mix reagents and target samples, Incubate)



Sample 10 µL

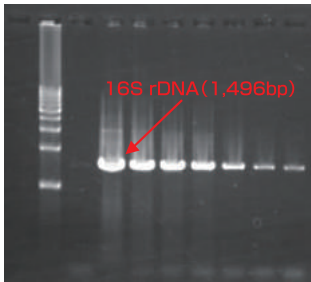
Reagent 100 µL } soln. a 10 µL
 soln. b 100 µL

Incubate
[72°C—6 minutes
 94°C—3 minutes]

Collect supernatant

Cica Geneus[®] DNA Extraction Reagent
 Preparation of PCR templete only 10 minutes

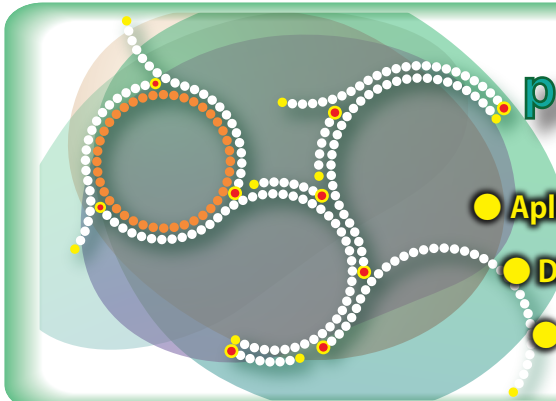
M 1 2 3 4 5 6 7 8



■ Sample	Staphylococcus aureus ATCC [®] 6538 [™]	M	1 kbp ladder
■ Target gene	16S rDNA (Ribosomal DNA)	1	negative control
■ Culture condition	LB medium (30°C 18h)	2	positive control (purified DNA)
		3~8	Extracted DNA serial dilution

Product No.	Product name	Package Size
08178-96	Cica Geneus [®] DNA Extraction Reagent	1 Pack (120 rxn)
08210-96	Cica Geneus [®] DNA Extraction Reagent ST	1 Pack (120 rxn)
08199-96	Cica Geneus [®] DNA Extraction Reagent AN	1 Pack (120 rxn)
08211-96	Cica Geneus [®] RNA Extraction Reagent	1 Pack (120 rxn)

Related products ~Enzyme for DNA amplification~



phi 29 DNA Polymerase set

- Amplification of genomic DNA from as little as a single cell
- DNA removed by original purification method
- Suppressing non-specific amplification

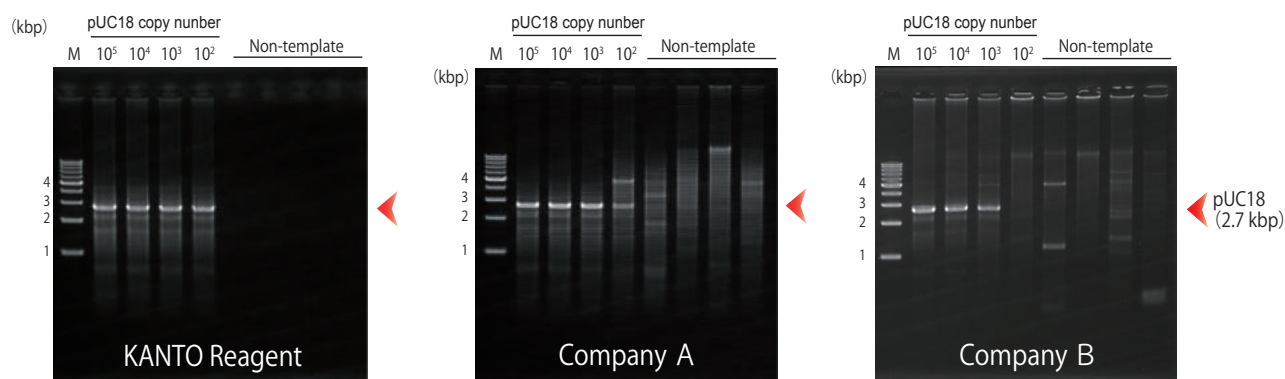
phi29 DNA Polymerase is the replicative polymerase from *Bacillus subtilis* phi29. This polymerase is available for representative amplification of the whole genome.

Features

- Mesophilic enzymes
- Exceptional strand displacement activity
- Extreme processivity
- Extreme extensibility
- An inherent 3'→5' proofreading exonuclease activity

Example: Circular DNA amplification by RCA (Rolling Circle Amplification)

pUC 18 DNA was amplified with several kinds of phi29 DNA polymerase. Then size of pUC18 DNA (2.7 kbp) were confirmed after digesting amplified DNA by restriction enzyme (BamH I and EcoR I).



● KANTO Reagent suppress non-specific amplification !

Product No.	Product name	Store at	Size
10195-96	phi29 DNA Polymerase set (0.05 mg/ mL)	-20~-25°C	1set (25 μL × 4)

* This product contains both phi29 DNAポリメラーゼ (0.05 mg/ mL) 25 μL×4 and 10 × Reaction Buffer 100 μL×4.

* This product was a built jointly by KANTO CHEMICAL Co., inc and NARO(National Agriculture and Food Research Organization).

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