

Cica Geneus™ Extraction Reagent Series



Cica Geneus™ DNA Extraction Reagent

product number 08178-96

Standard

Cica Geneus™ DNA Extraction Reagent ST

product number 08210-96

Strong

Cica Geneus™ DNA Extraction Reagent AN

product number 08199-96

For Animal

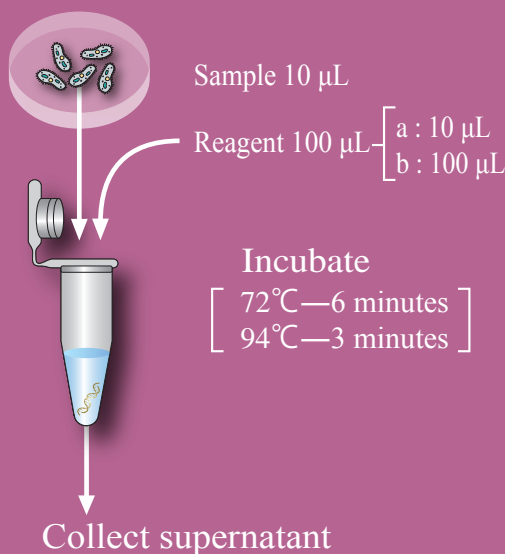
Cica Geneus™ RNA Extraction Reagent

product number 08211-96

For preparation of RT-PCR template

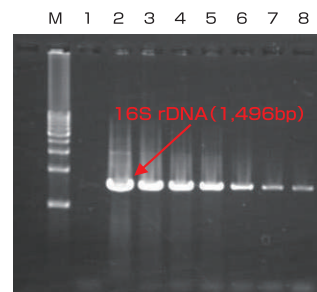
Cica Geneus™ Extraction reagent series are reagent for efficient extraction of genome DNA or total RNA from cell.

You can prepare PCR template in simple operation (Mix reagents and target samples, Incubate)



Cica Geneus™ DNA Extraction Reagent

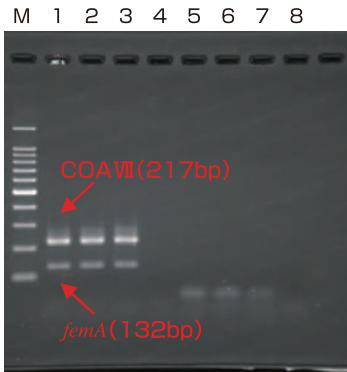
Preparation of PCR template **only 10 minutes**



	M	1	2	3	4	5	6	7	8
■ Sample	<i>Staphylococcus aureus</i> ATCC® 6538™								
■ Target gene	16S rDNA (Ribosomal DNA)								
■ Culture condition	LB medium (30°C 18 h)								
	M	1	2	3~8					
	1 kbp DNA Ladder	Negative control	Positive control (Purified DNA)	Extracted DNA					
				10 serial dilution					

CicaGeneus™ DNA Extraction Reagent Application

Bacteria (from colony)



M 100 bp DNA ladder
 1~3 DNA extracts by this kit (n=3)
 4, 8 Negative control
 5~7 DNA extracts by boiling (n=3)

■ Sample

Staphylococcus aureus NBRC 102141 (1~2 µL of colony)

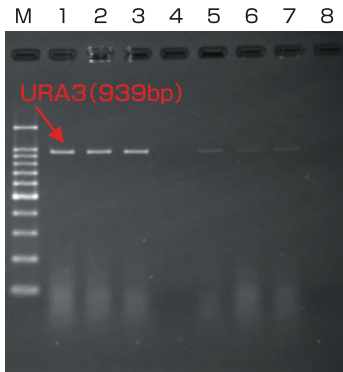
■ Target gene

COA (Coagulase VII)
femA (Methicillin resistant factor)

■ Culture condition

SCD plate medium (37°C overnight, aerobic)

Yeast (from colony)



M 100 bp DNA ladder
 1~3 DNA extracts by this kit (n=3)
 4, 8 Negative control
 5~7 DNA extracts by boiling (n=3)

■ Sample

Saccharomyces cerevisiae ATCC™ 9763 (5~10 µL of colony)

■ Target gene

URA3 (decarboxylase)

■ Culture condition

Sabouraud glucose plate medium (37°C overnight, aerobic)

Conformity example

Gram positive

Staphylococcus aureus
Clostridium difficile
Bacillus cereus
Enterococcus faecalis

Gram negative

Campylobacter jejuni
Salmonella enterica
Vibrio parahaemolyticus
Escherichia coli

Fungi

Candida albicans
Saccharomyces cerevisiae

Other organisms

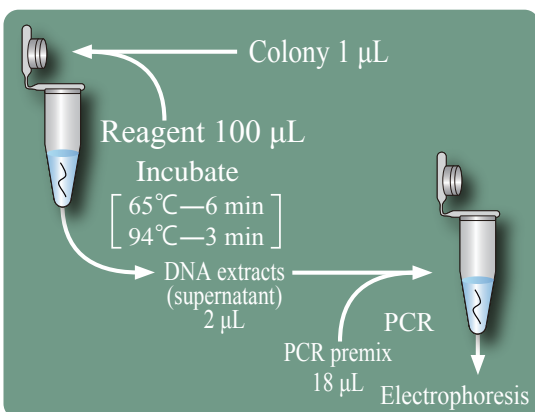
Mycoplasma pneumoniae
 Chinese hamster ovary cell

Please note that PCR amplification efficiency varies according to PCR conditions such as enzymes and primers.

CicaGeneus™ DNA Extraction Reagent ST Application 2

Strong version increases the extraction efficiency

Yeast (from colony)

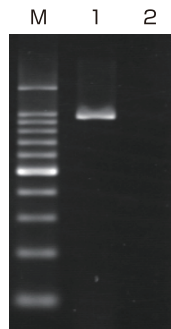


Template DNA	2.0 µL
AptaTaq DNA Master (5x conc.)	4.0 µL
Primer-Forward (10 pmol/µL)	1.0 µL
Primer-Reverse (10 pmol/µL)	1.0 µL
Sterile water	12.0 µL
Total	20.0 µL

PCR condition:

94°C	30 seconds
48°C	90 seconds
72°C	60 seconds

 30 cycles
 72°C 7 minutes



M 100 bp DNA ladder
 1 DNA extracts by this kit
 2 DNA extracts by boiling

■ Sample

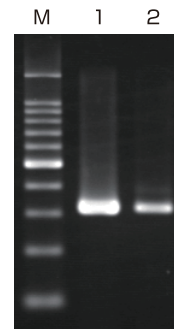
Saccharomyces cerevisiae ATCC™ 9763 (1 µL of colony)

■ Target gene

URA3 (939 bp)

■ Culture condition

Sabouraud glucose plate medium (37°C overnight, aerobic)



M 100 bp DNA ladder
 1 DNA extracts by this kit
 2 DNA extracts by CicaGeneus® DNA Extraction Reagent

■ Sample

Staphylococcus aureus NBRC 102141 (1~2 µL of colony)

■ Target gene

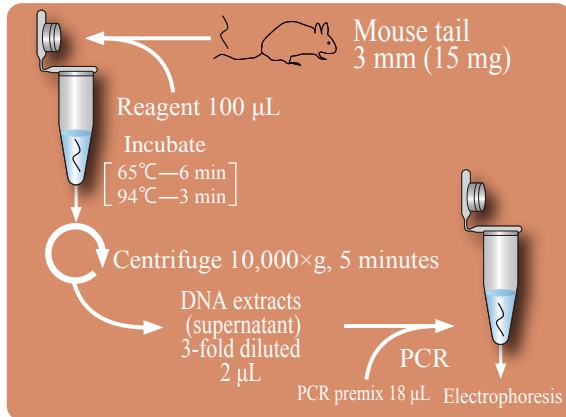
16S rRNA (324 bp)

■ Culture condition

SCD plate medium (37°C overnight, aerobic)

Optimized version for animal tissue samples

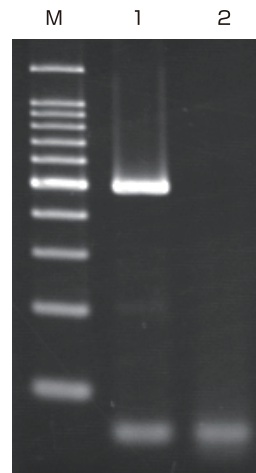
Mouse tail



Templete DNA	2.0 µL
AptaTaq DNA Master (5x conc.)	4.0 µL
Primer-Forward (10 pmol/µL)	1.0 µL
Primer-Reverse (10 pmol/µL)	1.0 µL
Sterile water	12.0 µL
Total	20.0 µL

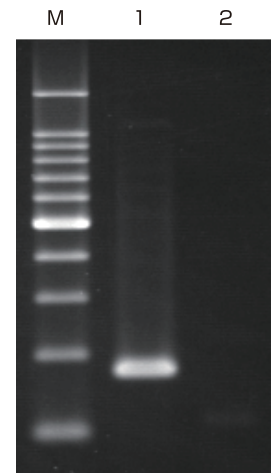
PCR condition:

94°C	30 seconds	30 cycles
60°C	90 seconds	
72°C	60 seconds	
72°C		7 minutes



M 100 bp DNA ladder
1 DNA extracts by this kit
2 DNA extracts by boiling

- Sample: Mouse tail (3 mm)
- Target gene: β-globin (494 bp)

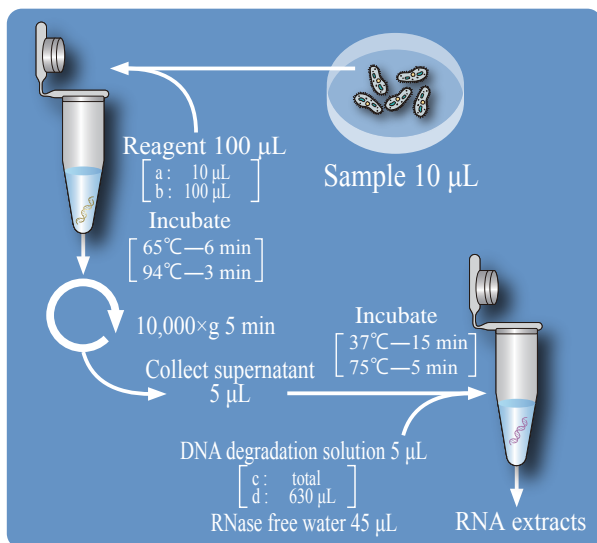


M 100 bp DNA ladder
1 DNA extracts by this kit
2 DNA extracts by boiling

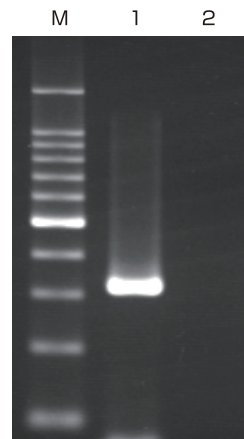
- Sample: Human whole blood added EDTA (1 µL)
- Target gene: ALDH2 (176 bp)

You can prepare total RNA for RT-PCR without using organic solvent

Staphylococcus aureus (from colony)



RT reaction	Templete RNA	5.0 µL	RT condition: 42°C 15 min ▼ 85°C 5 sec
	5x PrimeScript Buffer	2.0 µL	
	PrimeScript RT Enzyme Mix	0.5 µL	
	Primer-Reverse (2 pmol/µL)	0.5 µL	
	Sterile water	2.0 µL	
	Total	10.0 µL	



M 100 bp DNA ladder
1 RNA extracts by this kit
2 Negative control

- Sample: *Staphylococcus aureus*
- Target gene: 16S rRNA (324 bp)
- Culture condition: SCD plate medium (37°C overnight, aerobic)

Conformity example

- Gram positive: *Staphylococcus aureus*
- Gram negative: *Escherichia coli*
- Fungi: *Saccharomyces cerevisiae*
- Animal cells: HeLa cells

RT reaction	RT reaction solution	2.0 µL	PCR condition: 94°C 30 sec 54°C 90 sec 72°C 60 sec 72°C 7 min	30 cycles
	AptaTaq DNA Master (5x conc.)	4.0 µL		
	Primer-Forward (10 pmol/µL)	1.0 µL		
	Primer-Reverse (10 pmol/µL)	1.0 µL		
	Sterile water	12.0 µL		
	Total	20.0 µL		

PCR related products

AptaTaq DNA Master (5 X Conc.)

- Hot start PCR enzyme
- Optimal for PCR and Real-Time PCR etc.
- Ready-to-Use

AptaTaq DNA Polymerase(AptaTaq) is hot start type amplification enzyme that combines high speed and intensity. AptaTaq is bound by aptamer such as oligonucleotides with reversible manner (non-covalent). This aptamer has temperature dependent tertiary structure, it works as switch of enzyme activity. This polymerase activity is inactive in temperature below 55 °C. On the other hand, AptaTaq could be used for hot start type polymerase in temperature over 60 °C using aptamer type polymerase, you can save PCR time compared with chemical modified polymerase.

AptaTaq DNA Master (×5) is Ready-to-use PCR master mix includes this AptaTaq with substrate and Mg ion. Adding primers and template DNA (ex. genomic DNA, cDNA, plasmid) into this reagent, you can do PCR with high efficiency.

Product number	01016-96	500 μL (125 rxns)	※for 20 μL
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Product information

Product No.	Product Name	Package size	Stored at
08178-96	CicaGeneus™ DNA Extraction Reagent	120 rxns	2 °C~8 °C
08210-96	CicaGeneus™ DNA Extraction Reagent ST	120 rxns	2 °C~8 °C
08199-96	CicaGeneus™ DNA Extraction Reagent AN	120 rxns	2 °C~8 °C
08211-96	CicaGeneus™ RNA Extraction Reagent	120 rxns	2 °C~8 °C

Multiplex PCR Kit

Product No.	Product Name	Package size
08180-96	CicaGeneus™ Staph POT KIT	120 rxns
08187-96	CicaGeneus™ Pseudo POT KIT	50 rxns
08062-96	CicaGeneus™ Acineto POT KIT	30 rxns
08087-96	CicaGeneus™ Pathogenesis Gene Detection PCR Kit(for DEC)	100 rxns
08179-96	CicaGeneus™ Staph coagulase detection set	50 rxns
08081-96	CicaGeneus™ Bovine Mycoplasma HI screening kit	100 rxns

Related Products

Product No.	Product Name	Package size
46510-79	10×TBE buffer	1 L
46509-79	10×TAE buffer	1 L
46508-79	50×TAE buffer	1 L
14575-43	Ethidium bromide solution	10 mL
01016-96	AptaTaq DNA Master(5×Conc.)	500 μL
24079-96	6×Loading buffer orange G	2 mL×6
24080-96	6×Loading buffer	2 mL×6
24308-08	LB Medium (Miller), granulated	500 g



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