

# GenCheck® DNA Extraction Reagent

**EXTRACT VARIOUS SAMPLES & SAVE TIME**

A rapid DNA extraction kit for various samples e.g. blood, animal cells, plants, bacteria, fungi, foods, and etc. Only around 15 minutes required to obtain DNA for amplification such as PCR, and etc.



## FEATURES

- ① : Requires few micro-tubes, less waste produced.
- ② : Only requires heat treatment, complicated instruments is not required.
- ③ : Does not contain phenol and chloroform.
- ④ : Extracted DNA can be equally use for genetic analysis.

## CONTENTS

Product name	Code	Volume	Price
GenCheck® DNA Extraction Reagent	GC001-1N	20ml	Contact Us

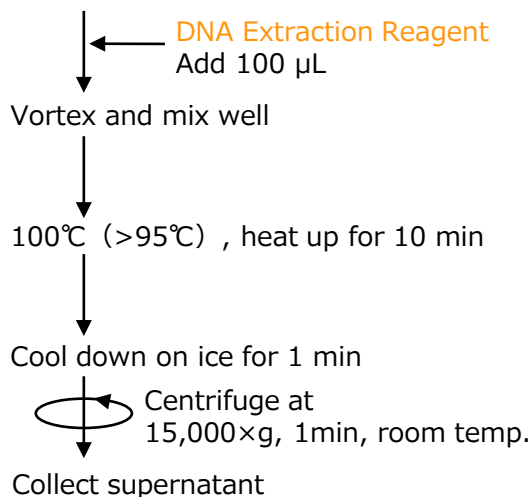
Storage · Transport : refrigerated storage (4°C), transport (room temp.)

Expire date : 18 months (manufactured)

## EXAMPLE PROTOCOLS

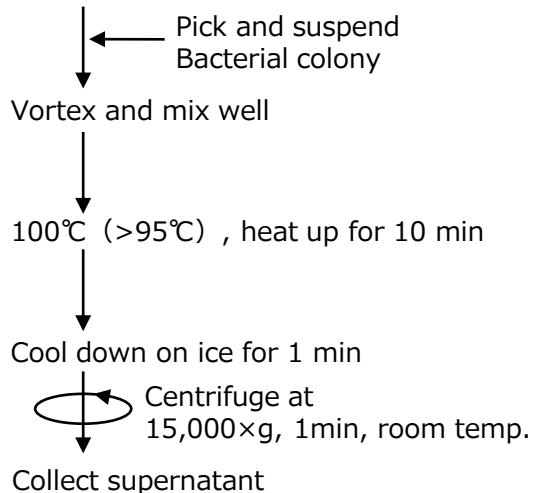
### General samples

Weigh 10 mg pulverized samples  
In 1.5 or 2 ml of micro-tube  
(screw caps preferred)



### Bacteria

Add 100 µL DNA Extraction Reagent 100  
into 1.5 or 2 ml of micro-tube  
(screw caps preferred)



# GenCheck<sup>®</sup> DNA Extraction Reagent

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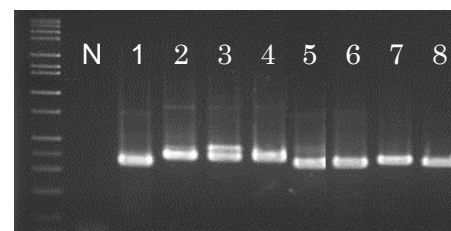
## EXAMPLE EXPERIMENTS

PCR results using GenCheck<sup>®</sup> DNA Extraction Reagent

### ① Seeds

Primer : Plant foreign material detection primer (FASMAC products)

GenCheck reagent	Template DNA (total 25 $\mu$ L)	1	2	3	4	5	6	7	8
		Z.mays	R.sativus	B.nupus	B. rapa var. pekinen	A.esculentus	Soleracea	L.sativa	P.sativum
Stock solution	2.5 $\mu$ L	+	+	+	+	+	+	+	+

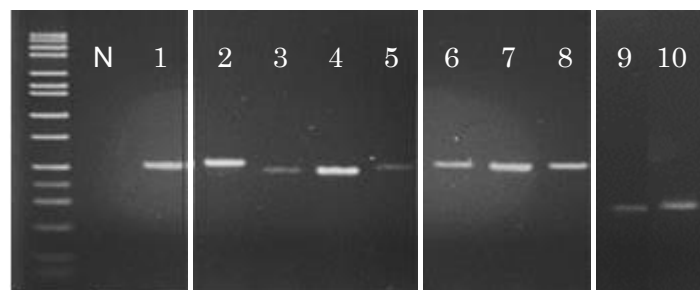


### ② Bacteria

GenCheck reagent	Template DNA (total 25 $\mu$ L)	Gram negative		Gram positive		
		1	2	3	4	5
		Salmonella enterica subsp. enterica (NFB8001)	Lactobacillus casei (NBRC15883)	Bifidobacterium bifidum (NBRC100015)	Clostridium tertium (NBRC103192)	Bacillus subtilis var. natto
Stock solution	1 $\mu$ L	+	+	+	+	+
Stock solution	5 $\mu$ L	-	-	-	-	-
10 X dilution	5 $\mu$ L	+	+	+	+	+

Primer : Bacterial 16S rDNA (500 bp)  
Fungi D2 LSU (300~500 bp)

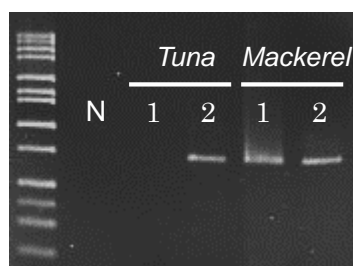
GenCheck reagent	Template DNA (total 25 $\mu$ L)	Gram positive			Mould	Yeast
		6	7	8	9	10
		Enterococcus avium (NBRC100477)	Staphylococcus aureus (ATCC29213)	Streptococcus mutans (NBRC13955)	Aspergillus wentii (NBRC4107)	Saccharomyces cerevisiae (NBRC1136)
Stock solution	1 $\mu$ L	+	+	+	+	+
Stock solution	5 $\mu$ L	-	-	-	-	-
10 X dilution	5 $\mu$ L	+	+	+	+	+



1 $\mu$ L stock solution

### ③ Animal cell

Primer : Fish cocktail



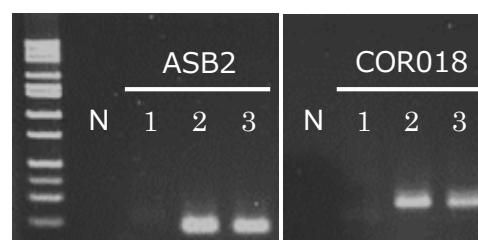
Lane no. 1. Stock solution (5  $\mu$ L)

Lane no. 2. 10X dilution (5  $\mu$ L)

Reaction volume 20 $\mu$ L

### ④ Blood

Primer : ASB2, COR018



Lane no. 1. Stock solution (1  $\mu$ L)

Lane no. 2. 10X dilution (1  $\mu$ L)

Lane no. 3. 100X dilution (1  $\mu$ L)

Reaction volume 10 $\mu$ L

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Dealer: