

**Distributor in Czechia and Slovakia: [www.biologicals.cz/e-shop](http://www.biologicals.cz/e-shop)**



# FAVORGEN

## The Professional Manufacturer of Nucleic Acid Extraction Kits

- **Automatic Production in ISO 13485 Qualified Factory.**
- **Complete Product Lines: Colum System, 96-Well System, Reagent**
- **Collaboration with Academic and Industrial Partners for Product Developing & Quality Improving.**



Favorgen located in the national biotechnology park, Taiwan. It constructs its ISO qualified factory with automation system for production of high-quality molecular biology products and clinical chemical reagents.

Currently, Favorgen has set up its distributorship net over 30 countries in the world. Since being established, Favorgen has invested substantially in its state-of-the-art manufacturing facilities, to provide customers with high-quality products at very competitive prices. Favorgen is committed to developing research, both in-house and through collaboration with academic and industrial partners, in order to keep offering high-quality, innovation products.

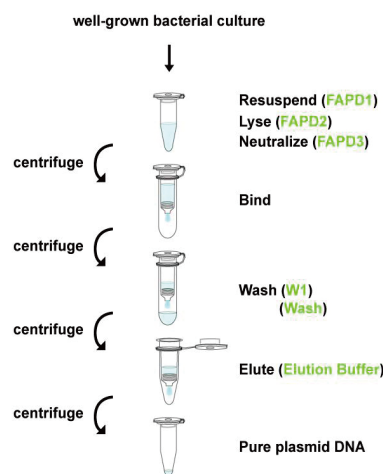


## Plasmid DNA Extraction Mini Kit



### Features

- **High Recovery:** For high yields of plasmid DNA-up to 30µg from 1~3ml overnight cultures.
- **Easy to use:** No need for messy resin slurries, extracting with phenol, or concentrating via alcohol precipitation.
- **Time saving:** Rapid isolation of plasmid DNA, within 30 minutes after lysis.
- **Versatile:** Bacterial cultures such as E. coli, which bacteria is pellet, lysed, and then neutralized.



### Specifications

<b>Sample:</b>	plasmid DNA-µp to 30µp from 1~3ml overnight cultures
<b>Binding Capacity:</b>	Up to 50 µp
<b>Expectant Yield:</b>	20-30 µp for high-copy plasmid 3-10 µp for low-copy plasmid
<b>operation Time:</b>	Under 30 minutes



### Order Information

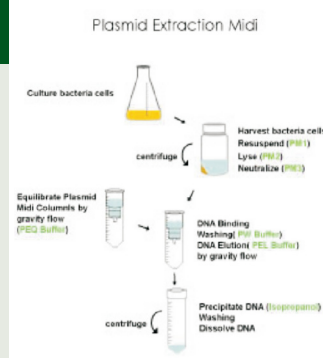
Cat. No.	Product Name	Size
<b>FAPDE 100</b> <b>FAPDE 300</b>	FavorPrep™ Plasmid DNA Extraction Mini Kit	100 preps 300 preps
<b>Kit Component</b> FAPD1 Buffer      FAPD2 Buffer      FAPD3 Buffer W 1 Buffer      Wash Buffer (Concentrated) Elution Buffer      RNase A (50mg/ml) FAPD Mini Columns      2ml tubes (for Collection)		

## Plasmid DNA Extraction Midi Kit



### Features

- **Purity:** Equal to that obtained by 2x CsCl-gradient centrifugation.
- **Safe:** Eliminates the use of phenol, chloroform, ethidium bromide, and cesium chloride, minimizing exposure to, and disposal of hazardous materials.
- **Time saving:** Complete the process in less than 120 minutes.
- **Versatile:** Bacterial cultures such as E. coli, which bacteria is pellet, lysed, and then neutralized.



### Specifications

<b>Sample:</b>	Up to 120ml bacterial cultures
<b>Binding Capacity:</b>	Up to 650µg
<b>Expectant Yield</b>	500µg for high-copy plasmid 25-200µg for low-copy plasmid
<b>Operation Time</b>	Less than 120 minutes



### Order Information

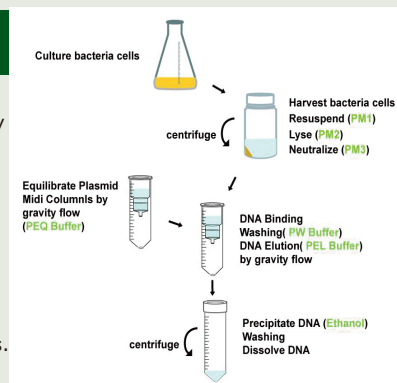
Cat. No.	Product Name	Size
<b>FAPDE 002</b> <b>FAPDE 002-1</b>	FavorPrep™ Plasmid DNA Extraction Midi Kit	25 preps 50 preps
<b>FAPDE 002-EF</b>	FavorPrep™ Endotoxin Free Plasmid DNA Extraction Midi Kit	25 preps
<b>Kit Component</b> PM1 Buffer      PM2 Buffer      PM3 Buffer PEQ Buffer      PW Buffer      PEL Buffer PTR Buffer (only for Endotoxin Free Extraction Kit) RNase A (50mg/ml)      PM Midi Columns		

## Plasmid DNA Extraction Maxi Kit



### Features

- **Purity:** Equal to that obtained by 2x CsCl-gradient centrifugation.
- **Safe:** Eliminates the use of phenol, chloroform, ethidium bromide, and cesium chloride, minimizing exposure to, and disposal of hazardous materials.
- **Time saving:** Complete the process in less than 150 minutes.
- **Versatile:** Bacterial cultures such as E. coli, which bacteria is pellet, lysed, and then neutralized.



### Order Information

Cat. No.	Product Name	Size
<b>FAPDE 003</b> <b>FAPDE 003-1</b>	FavorPrep™ Plasmid DNA Extraction Maxi Kit	10 preps 20 preps
<b>FAPDE 003-EF</b>	FavorPrep™ Endotoxin Free Plasmid DNA Extraction Maxi Kit	10 preps

### Kit Component

PM1 Buffer    PM2 Buffer    PM3 Buffer  
PEQ Buffer    PW Buffer    PEL Buffer  
RNase A (50mg/ml)  
PTR Buffer (Only for Endotoxin Free Extraction Kit)

### Specifications

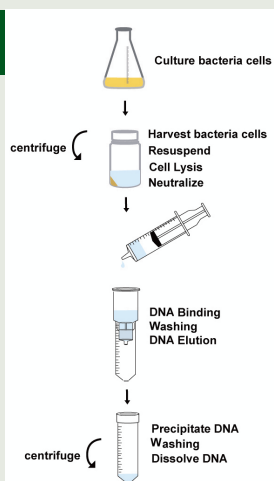
<b>Sample:</b>	Up to 240ml bacterial cultures
<b>Binding Capacity:</b>	Up to 1.5mg
<b>Expectant Yield:</b>	high-copy plasmid: 1mg bacterial culture low-copy plasmid: 50-500µg bacterial culture
<b>operation Time:</b>	Less than 150 minutes

## FavorFilter™ Plasmid DNA Extraction Maxi Kit



### Features

- **Time Saving:** Complete the process in less than 90 minutes
- **High Purity:** Equal to that obtained by 2x CsCl gradient centrifugation.
- **Safe:** Eliminates the use of phenol, chloroform, ethidium bromide, and cesium chloride, minimizing exposure to and disposal of hazardous materials.
- Transfection (non-endotoxin sensitive), In Vitro Transcription, Microinjection, Restriction Enzyme digestion



### Order Information

Cat. No.	Product Name	Size
<b>FAFTE 001</b> <b>FAFTE 001-1</b>	FavorPrep™ FavorFilter Plasmid DNA Extraction Maxi Kit	4 preps 10 preps
<b>FAFTE 001-EF</b> <b>FAFTE 001-1-EF</b>	FavorFilter™ Endotoxin Free Plasmid DNA Extraction Maxi Kit	4 preps 10 preps

### Kit Component

PM1 Buffer    PM2 Buffer    PM3 Buffer  
PEQ Buffer    PW Buffer    PEL Buffer  
RNase A (50mg/ml)  
PM Maxi Column    FavorFilter Maxi Cartridges  
PTR Buffer (Only for Endotoxin Free Extraction Kit)

### Specifications

<b>Sample:</b>	Up to 240ml bacterial cultures
<b>Binding Capacity:</b>	Up to 1.5mg
<b>Expectant Yield:</b>	high-copy plasmid: 1mg bacterial culture low-copy plasmid: 50-500µg bacterial culture
<b>operation Time:</b>	Less than 120 minutes

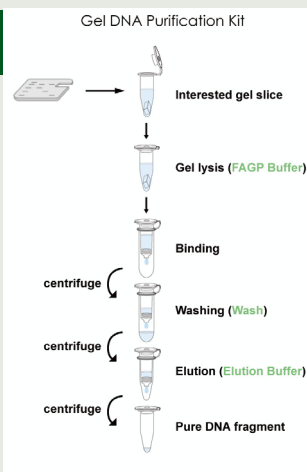


## GEL Purification Kit



### Features

- **Fast:** Rapid extraction of DNA fragments from agarose gels
- **Purity:** Highly pure DNA (suitable for PCR)
- **Simple:** DNA can be eluted with sterile water or TE buffer.
- **Safe:** No phenol/chloroform extraction and ethanol precipitation required.



### Specifications

<b>Applications:</b>	Purification of DNA from solutions and agarose gels
<b>Operation:</b>	Centrifuge / Vacuum
<b>Sample Source:</b>	DNA in agarose gel, PCR products, Enzyme reaction mixture etc.
<b>DNA Size Range</b>	70bp~12kb
<b>Binding Capacity</b>	up to 10µg
<b>Recovery Rate:</b>	70~85%
<b>Operation Time:</b>	About 25 minutes

### Order Information

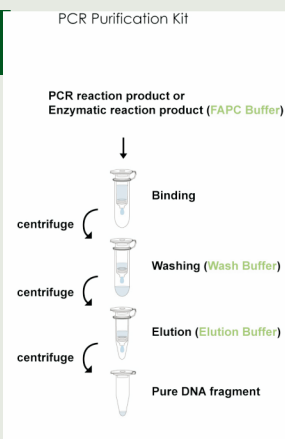
Cat. No.	Product Name	Size
<b>FAGPK 001</b> <b>FAGPK 001-1</b>	FavorPrep™ GEL Purification Kit	50 preps 200 preps
<b>Kit Component</b>		
FAGP Buffer	Wash Buffer (Concentrated)	
Elution Buffer	FAGP Column	
2ml Collection tubes	1.5ml Elution tubes	

## PCR Clean-Up Kit



### Features

- **Fast:** Quick and easy to use, just three simple steps.
- **Simple:** PCR product is eluted with sterile water or elution buffer (supplied).
- **Safe:** No phenol/chloroform extraction and ethanol precipitation required.



### Specifications

<b>Applications:</b>	sequencing, ligation, labeling, amplification and enzymatic digestion
<b>Operation:</b>	Centrifuge / Vacuum
<b>Sample Source:</b>	PCR products, labeled, modified or digested DNA (Ex. Restriction digests, alkaline phosphatase fragments, kinase reaction, enzymatic labeling reactions)
<b>DNA Size Range:</b>	100bp~12kb
<b>Binding Capacity:</b>	up to 10µg PCR product
<b>Recovery Rate:</b>	90~95%
<b>Operation Time:</b>	About 15 minutes

### Order Information

Cat. No.	Product Name	Size
<b>FAPCK 001</b> <b>FAPCK 001-1</b>	FavorPrep™ PCR Clean-Up Kit	50 preps 200 preps
<b>Kit Component</b>		
FAPC Buffer	Wash Buffer (Concentrated)	
Elution Buffer	FAPC Column	
2ml Collection tubes	1.5ml Elution tubes	

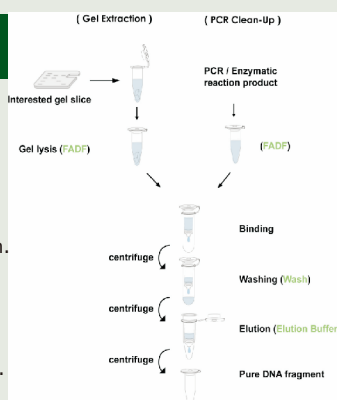


## GEL/PCR Purification Kit



### Features

- **High Recovery:** 70-85% for Gel Extraction, 90-95% for PCR Clean-Up. With simple steps, quick and easy to use.
- **Time Saving:** 15 minutes for PCR clean-up, 20 minutes for Gel extraction.
- **Safe Use:** No phenol/chloroform extraction and ethanol precipitation required.
- **Versatile:** Purify DNA from agarose gels, PCR or other enzymatic reactions. Fragments between 70bp~ 12Kb.



### Specifications

<b>Applications:</b>	PCR, Fluorescent or Radioactive Sequencing, Restriction Digestion, DNA Labeling, Ligation and Transformation
<b>Sample Source:</b>	Up to 300mg agarose gel slice Up to 100ml PCR product or other enzymatic reaction
<b>DNA Size Range:</b>	70bp~12kb
<b>Binding Capacity:</b>	up to 10µg
<b>Recovery Rate :</b>	70-85% for GEL extraction 90~95% for PCR Clean-Up
<b>Operation Time:</b>	15 minutes for PCR Clean-Up 25 minutes for GEL extraction



### Order Information

Cat. No.	Product Name	Size
<b>FAGCK 001</b> <b>FAGCK 001-1</b>	FavorPrep™ GEL/PCR Purification Mini Kit	100 preps 300 preps

### Kit Component

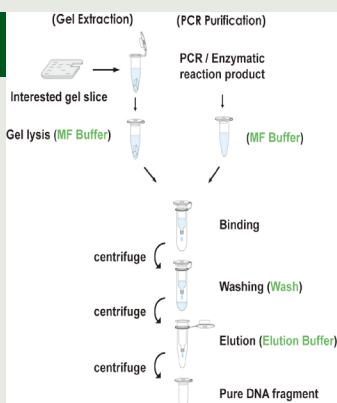
FADF Buffer	Wash Buffer (Concentrated)
Elution Buffer	FADF Column
2ml Collection tubes	

## FavorPrep™ MicroElute Gel/PCR Purification Kit



### Features

- **Very Small Elution Volume:** 10µl
- **High Recovery:**  
75~85% for Gel extraction  
80~90% for PCR purification
- **Time saving:** 15 minutes for PCR purification, 20 minutes for Gel extraction
- **Safe:** No phenol/chloroform extraction and ethanol precipitation required



### Specifications

<b>Sample:</b>	Very Small Elution Volume :10µl
<b>DNA size:</b>	70bp-4kb
<b>Binding Capacity:</b>	Up to 5µg
<b>Expected Yield:</b>	75~85% for Gel extraction 80~90% for PCR purification
<b>Operation Time:</b>	15 minutes for PCR purification, 20 minutes for Gel extraction



### Order Information

Cat. No.	Product Name	Size
<b>FAEPK 001</b> <b>FAEPK 001-1</b>	FavorPrep™ MicroElute GEL/PCR Purification Kit	50 preps 200 preps

### Kit Component

MF Buffer	Wash Buffer (conc.)
Elution Buffer	MF Column
2ml tubes (for Collection)	

# Blood Genomic DNA Extraction Mini Kit

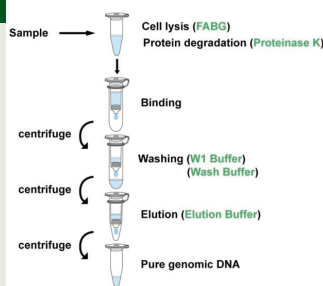
(Blood/ Buffy Coat/ Cultured Cells)



## Features

- **High Recovery:** Possible to purify between 5-50µg of genomic DNA.
- **Safe:** No phenol, chloroform extraction or ethanol precipitation required.
- **Time saving:** Within 30 minutes depending on sample type.
- **Versatile:** Extraction of genomic DNA from whole blood, plasma, serum, buffy coat, body fluids, lymphocytes, cultured cells and bacterial cells.

Blood Genomic DNA Mini Extraction Kit



## Specifications

<b>Sample:</b>	<b>Kit with Proteinase K:</b> Up to 0.2ml blood sample 5 x 10 <sup>6</sup> animal cultured cells 10 <sup>8</sup> bacterial cultured cells
	<b>Kit without Proteinase K</b> Up to 0.3ml fresh blood sample
<b>Binding Capacity:</b>	up to 50µg genomic DNA
<b>Expectant Yield:</b>	4-12µg for blood sample 20-40µg for cultured cells
<b>operation Time:</b>	Within 30 minutes

## Order Information

Cat. No.	Product Name	Size
<b>FABGK 001</b> <b>FABGK 001-1</b>	FavorPrep™ Blood Genomic DNA Extraction Mini Kit (including Proteinase K Powder)	50 preps 100 preps
<b>FABGK 100</b> <b>FABGK 300</b>	FavorPrep™ Blood Genomic DNA Extraction Mini Kit	100 preps 300 preps

### Kit Component

#### Using Proteinase K

Proteinase K FABG Buffer Elution Buffer  
W1 Buffer (conc.) Wash Buffer (conc.)  
FABG Mini Column 2ml tubes (for Collection)  
1.5ml tubes (for Elution)

#### Using Lysis Buffer

RBC Lysis Buffer FATG Buffer  
W1 Buffer Wash Buffer (conc.)  
Elution Buffer FABG Mini Column  
2ml tubes (for Collection)

# Blood Genomic DNA Extraction Maxi Kit

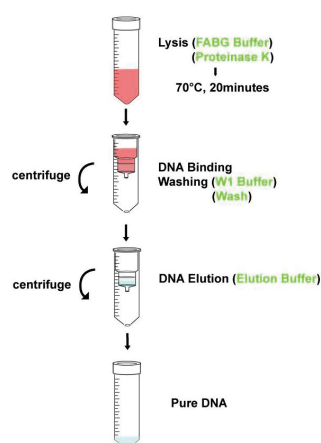
(Blood/ Buffy Coat/ Cultured Cells)



## Features

- **High Recovery:** Possible to purify between 500µg of genomic DNA.
- **Safe:** No phenol, chloroform extraction or ethanol precipitation required.
- **Time saving:** About 60 minutes.
- **Versatile:** Extraction of genomic DNA from whole blood, plasma, serum, buffy coat, body fluids, lymphocytes, cultured cells and bacterial cells.

Blood Genomic DNA Extraction Maxi Kit



## Specifications

<b>Sample:</b>	Up to 10ml fresh blood 5 X 10 <sup>7</sup> -1 X 10 <sup>8</sup> animal cultured cell 2 X 10 <sup>10</sup> bacterial cultured cells
<b>Binding Capacity:</b>	Up to 500µg of Genomic DNA
<b>Expected Yield:</b>	Up to 500µg for whole blood
<b>operation Time:</b>	About 60 minutes

## Order Information

Cat. No.	Product Name	Size
<b>FABGK 003</b> <b>FABGK 003-1</b>	FavorPrep™ Blood Genomic DNA Extraction Maxi Kit (Including Proteinase K Powder)	10 preps 24 preps

### Kit Component

#### Using Proteinase K Powder

Proteinase K Powder FABG Buffer  
W1 Buffer Wash Buffer (conc.)  
Elution Buffer FABG Maxi Column  
50ml tubes (for Elution)

# Tissue Genomic DNA Extraction Mini Kit

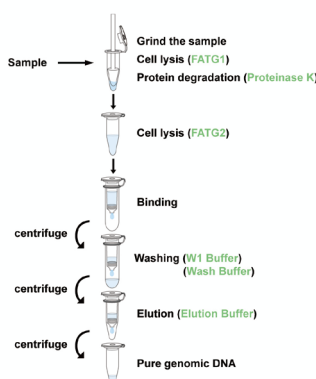
(Tissue/ Bacteria, G+ G- Fixed Tissue/ Yeast/ Dried blood spot)



## Features

- **High Recovery:** Possible to purify up to 50µg of genomic DNA.
- **Easy to use:** Rapid isolation without the use of caustic organic compounds.
- **Time saving:** Rapid isolation of genomic DNA from blood, within 20 minutes after lysis
- **Versatile:** Extraction of genomic DNA from several types of tissue, fixed tissue, yeast or dried blood, up to 25mg of fresh/frozen tissue can be sued.

## Tissue Genomic DNA



## Order Information

Cat. No.	Product Name	Size
<b>FATGK 001</b>	FavorPrep™ Tissue Genomic DNA Extraction Mini Kit	50 preps
<b>FATGK 001-1</b>		100 preps
<b>FATGK 001-2</b>		300 Preps

## Kit Component

Proteinase K Powder FATG1 Buffer FATG2 Buffer  
W1 Buffer Wash Buffer (Concentrated) Elution Buffer  
FATG Mini Column 1.5ml tubes (for Elution)  
2ml tubes (for Collection) Micropestles

## Specifications

<b>Sample:</b>	25mg animal tissues, 1.2 cm mouse tail, 3ml log-phase (OD=10) yeast culture Paraffin-embedded tissue, Buccal swab
<b>Binding Capacity:</b>	up to 60µg genomic DNA
<b>Expectant Yield:</b>	5-50µg
<b>operation Time:</b>	Within 20 minutes after lysis

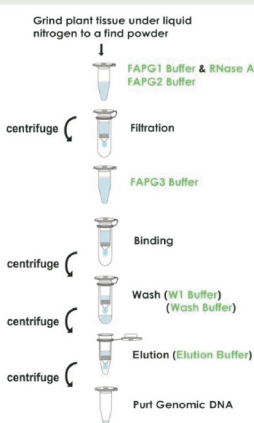
# Plant Genomic DNA Extraction Mini Kit

(Plant tissue/ Plant Cells)



## Features

- **High Purity:** DNA is suitable for a variety of applications, including amplification, digestion, PCR etc.
- **Save:** It is not necessary to treat the sample with harmful organic solvents such as phenol and chloroform.
- **Time saving:** About 30-60 minutes depending upon the sample type.



## Plant Genomic DNA Mini Kit



## Order Information

Cat. No.	Product Name	Size
<b>FAPGK 001</b>	FavorPrep™ Plant Genomic DNA Extraction Mini Kit	50 preps
<b>FAPGK 001-1</b>		100 preps

## Kit Component

FAPG1 Buffer FAPG2 Buffer FAPG3 Buffer  
W1 Buffer (conc.) Wash Buffer (conc.) Filter column  
Elution Buffer RNase A  
FAPG mini column 2ml tubes (for Collection)

## Specifications

<b>Sample:</b>	Up to 100mg fresh Plant tissues or 20mg dry plant tissue
<b>Binding Capacity:</b>	Up to 50mg genomic DNA
<b>Expected Yield :</b>	5~40mg
<b>Operation Time:</b>	About 30-60 minutes



# Plant Genomic DNA Extraction Maxi Kit

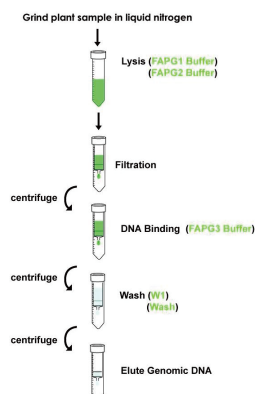
(Plant tissue/ Plant Cells)



## Features

- **High Purity:** DNA is suitable for a variety of applications, including amplification, digestion, PCR etc.
- **Save:** It is not necessary to treat the sample with harmful organic solvents such as phenol and chloroform.
- **Time saving:** Within 80 minutes depending upon the sample type.

### Plant Genomic DNA Maxi



## Order Information

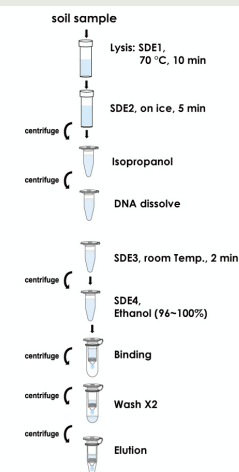
Cat. No.	Product Name	Size
<b>FAPGK 002</b> <b>FAPGK 002-1</b>	FavorPrep™ Plant Genomic DNA Extraction Maxi Kit	10 preps 24 preps
<b>Kit Component</b>		
FAPG1 Buffer	FAPG2 Buffer	FAPG3 Buffer
Wash1 Buffer (conc.)	Wash Buffer (concentrated)	
Elution Buffer	RNase A (10mg/ml)	
FAPG mini column	Filter column	

# FavorPrep™ Soil DNA Isolation Mini/Midi Kit



## Features

- **Time Saving:** Rapid isolation of ready-to-use DNA within 60 minutes without phenol/chloroform extraction.
- **High purity:** Eliminate humic acid, polysaccharides, phenol compounds, and enzyme inhibitor from stool sample.
- **Sample Size:** Mini Kit Prep: 0.2~1g of soil sample Midi Prep: up to 10g of soil sample
- **Format:** Spin Column



## Order Information

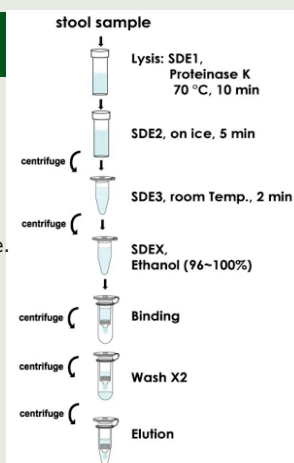
Cat. No.	Product Name	Size
<b>FASOI 001</b> <b>FASOI 001-1</b>	FavorPrep™ Soil DNA Isolation Mini Kit	50 preps 100 preps
<b>FASOI 002</b>	FavorPrep™ Soil DNA Isolation Midi Kit	24 preps
<b>Mini Kit Components</b>		
Glass Beads	SDE1 Buffer	SDE2 Buffer
SDE4 Buffer	Wash Buffer (conc.)	SDE3 Buffer
SDE Mini Column	2ml Tube (for Collection)	Elution Buffer
<b>Midi Kit Components</b>		
Glass Beads	SDE1 Buffer	SDE2 Buffer
SDE4 Buffer	Wash Buffer (conc.)	SDE3 Buffer
SDE Midi Column	50ml Tube (for Collection)	Elution Buffer

## FavorPrep™ Stool DNA Isolation Mini Kit



### Features

- **Time Saving:** Rapid isolation of ready-to-use DNA within 60 minutes without phenol/chloroform extraction.
- **High purity:** Eliminate humic acid, polysaccharides, phenol compounds, and enzyme inhibitor from stool sample.
- **Sample Size:** 50~100mg of fresh or frozen stool sample.
- **Format:** Spin Column



### Specifications

**Sample:** 50~100mg of fresh or frozen stool sample.

**Binding Capacity:** Up to 30µg genomic DNA

**Operation Time:** Within 60 minutes



### Order Information

Cat. No.	Product Name	Size
<b>FASTI 001</b> <b>FASTI 001-1</b>	FavorPrep™ Stool DNA Isolation Mini Kit	50 preps 100 preps

#### Kit Component

Glass Beads SDE1 Buffer SDE2 Buffer SDE3 Buffer  
SDE4 Buffer Wash Buffer (concentrated)  
Elution Buffer Proteinase K SDE Mini Column  
2.0ml Tube (for Collection)

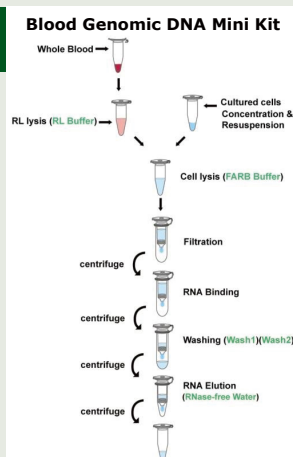
## Blood Total RNA Extraction Mini Kit

(Blood/ Cultured cells)



### Features

- **High Purity:** OD 260/280: 1.9-2.1
- **Save Use:** The kit use a spin column tube and removes proteins and nucleases in cells. It is not necessary to treat the sample with harmful organic solvents such as phenol and chloroform.
- **Time saving:** 30-60 minutes depending upon the sample type.



### Specifications

**Sample:** Up to 0.3ml fresh whole blood  
Up to 1 X 10<sup>7</sup> animal cultured cells  
Up to 1 X 10<sup>9</sup> bacterial cultured cells  
Up to 5 X 10<sup>7</sup> Yeast

**Binding Capacity:** Up to 100µg total RNA

**Expected Yield :** 4-12µg from blood sample  
10-65µg from cultured cells

**Operation Time:** About 30-60 minutes



### Order Information

Cat. No.	Product Name	Size
<b>FABRK 001</b> <b>FABRK 001-1</b> <b>FABRK 001-2</b>	FavorPrep™ Blood/ Cultured Cell Total RNA Purification Mini Kit	50 preps 100 preps 300 preps

#### Kit Component

RL Buffer FARB Buffer Wash Buffer 1  
Wash Buffer 2(conc.) RNase-free Water  
FARB Columns 2ml tubes (for collection)  
1.5ml tubes (for elution) Filter Column

## Blood Total RNA Extraction Maxi Kit

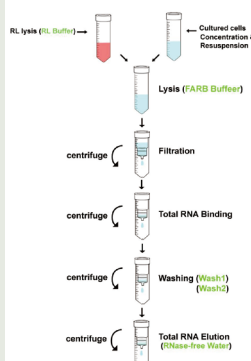
(Blood/ Cultured cells)



### Features

- **High Purity:** OD 260/280: 1.9-2.1
- **Save Use:** The kit use a spin column tube and removes proteins and nucleases in cells. It is not necessary to treat the sample with harmful organic solvents such as phenol and chloroform.
- **Time saving:** 60 minutes depending upon the sample type.

### Blood Total RNA Maxi



### Specifications

**Sample:** 3-10ml fresh whole blood  
Up to  $5 \times 10^8$  animal cultured cells  
Up to  $5 \times 10^{10}$  bacterial cultured cells  
Up to  $5 \times 10^9$  Yeast

**Binding Capacity:** Up to 6mg total RNA

**Operation Time:** About 60 minutes



### Order Information

Cat. No.	Product Name	Size
<b>FABRK 003</b> <b>FABRK 003-1</b>	FavorPrep™ Blood/Cultured Cell Total RNA Purification Maxi Kit	10 preps 24 preps

### Kit Component

10X RL Buffer	FARB Buffer	Wash Buffer 1
Wash Buffer 2(cocnc.)	RNase-Free Water	
FARB Maxi Columns	50 ml Elution Tube	Filter Column

## Tissue Total RNA Extraction Mini Kit

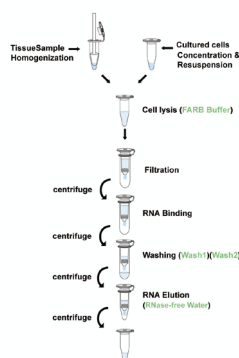
(Animal tissue/Cultured cells/ Bacteria)



### Features

- **High Purity:** OD 260/280: 1.9-2.1
- **Save Use:** It is not necessary to treat the sample with harmful organic solvents such as phenol and chloroform.
- **Time saving:** Purification of high quality RNA from 25 mg of animal tissues about 40-60 minutes depending upon the sample type.

### Tissue Total RNA



### Specifications

**Sample:** 25mg fresh animal tissue,  
Up to  $1 \times 10^7$  animal cultured cells,  
Up to  $1 \times 10^9$  bacterial cultured cells,  
Up to  $5 \times 10^7$  Yeast cells.

**Binding Capacity:** Up to 100µg total RNA

**Expected Yield :** Up to 40µg total RNA

**Operation Time:** About 40-60 minutes



### Order Information

Cat. No.	Product Name	Size
<b>FATRK 001</b> <b>FATRK 001-1</b> <b>FATRK 001-2</b>	FavorPrep™ Tissue Total RNA Purification Mini Kit	50 preps 100 preps 300 preps

### Kit Component

FARB Buffer	Wash Buffer 1
RNase-Free Water	Wash Buffer 2(cocnc.)
2ml Tubes (for collection)	FARB Columns
Micropestles (RNase Free)	1.5ml Tubes (for Elution)



# Tissue Total RNA Extraction Maxi Kit

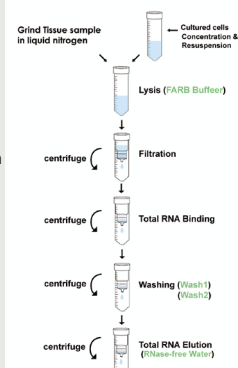
(Animal tissue/Cultured cells/ Bacteria)



## Features

- **High Purity:** OD 260/280: 1.9-2.1
- **Save Use:** It is not necessary to treat the sample with harmful organic solvents such as phenol and chloroform.
- **3. Time saving:**
  - Mini:** Purification of high quality RNA from 25mg of animal tissues about 40-60 minutes depending upon the sample type.
  - Midi:** Purification of high quality RNA from 100~300 mg of animal tissues about 60 minutes depending upon the sample type.
  - Maxi:** Purification of high quality RNA from 0.5~1g of animal tissues about 60 minutes depending upon the sample type.

## Tissue Total RNA Maxi



## Order Information

Cat. No.	Product Name	Size
<b>FATRK 003</b> <b>FATRK 003-1</b>	FavorPrep™ Tissue Total RNA Purification Maxi Kit	10 preps 24 preps
<b>Kit Component</b> FARB Buffer      Wash Buffer 1 RNase-Free Water      FARB Maxi Columns 50 ml Elution Tubes      Filter Columns Wash Buffer 2(cocnc.)		

# Plant Total RNA Extraction Mini Kit

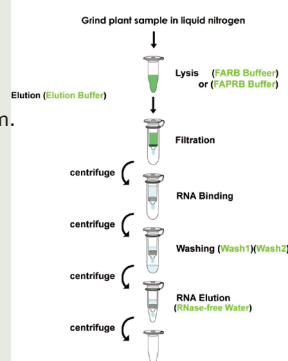
(Plant tissue/ Plant Cells)



## Features

- **High Purity:** OD 260/280: 1.9-2.1
- **Save Use:** It is not necessary to treat the sample with harmful organic solvents such as phenol and chloroform.
- **Time saving:** 30-60 minutes depending upon the sample type.

## Plant Total RNA



## Order Information

Cat. No.	Product Name	Size
<b>FAPRK 001</b> <b>FAPRK 001-1</b> <b>FAPRK 001-2</b>	FavorPrep™ Plant Total RNA Purification Mini Kit	50 preps 100 preps 300 preps
<b>FAPRK 003</b> <b>FAPRK 003-1</b>	FavorPrep™ Plant Total RNA Purification Mini Kit (for Woody Plant)	50 preps 100 preps
<b>Mini Kit Component</b> FARB Buffer      FAPRB Wash Buffer      Wash Buffer 1      Wash Buffer 2(cocnc.) RNase-Free Water      Filter Columns      FARB mini columns      2ml tubes (for collection) <b>For Woody Plant</b> FARB-1 Buffer      FARB-2 Wash Buffer      Wash Buffer 1      Wash Buffer 2(cocnc.) RNase-Free Water      FARB mini columns      2ml tubes (for collection)		

# Plant Total RNA Extraction Maxi Kit

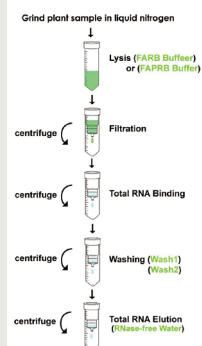
(Plant tissue/ Plant Cells)



## Features

- **High Purity:** OD 260/280: 1.9-2.1
- **Save Use:** It is not necessary to treat the sample with harmful organic solvents such as phenol and chloroform.
- **Time saving:** 30-60 minutes depending upon the sample type.

## Plant Total RNA Maxi



## Specifications

**Sample:** Up to 1g fresh Plant tissues

**Binding Capacity:** Up to 6mg total RNA

**Expected Yield :** Up to 50~300µg total RNA from young leave

**Operation Time:** Within 60 minutes



## Order Information

Cat. No.	Product Name	Size
<b>FAPRK 002</b> <b>FAPRK 002-1</b>	FavorPrep™ Plant Total RNA Purification Maxi Kit	10 preps 24 preps

## Kit Component

FARB Buffer      FAPRB Buffer      Wash Buffer 1  
Wash Buffer 2 (conc.)      RNase-Free Water  
Filter Columns      FARB Maxi columns

# FavorPrep™ Viral Nucleic Acid Extraction Kit

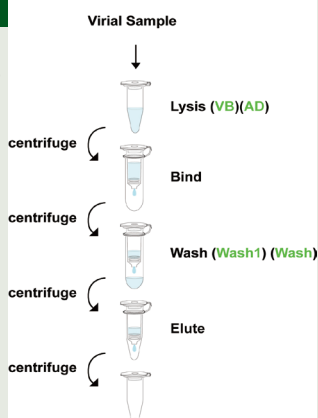


## Features

- **High Purity:** Complete removal of contaminants and inhibitors for reliable downstream applications
- **High Speed:** Rapid purification of high-quality viral DNA and RNA within 30 minutes
- **Safe Use:** Eliminates the use of phenol, chloroform, ethidium bromide, and cesium chloride, minimizing exposure to, and disposal of hazardous materials.
- **Scalable protocol:** Solution based procedure can be scaled to suit the application
- **Versatile:** Viral DNA can be extracted from 150µl of plasma, serum, urine, cell-culture, supernatant, or cell-free body fluids.

## Brief Procedure

(in microcentrifuge)



## Specifications

**Sample:** 150µl of serum, plasma, bodily fluids, and the supernatant of viral infected cell culture

**Elution Volume :** 40~50µl

**Expected Recovery:** 80~90%

**Operation Time:** 20 minutes



## Order Information

Cat. No.	Product Name	Size
<b>FAVVK 001</b> <b>FAVVK 001-1</b>	FavorPrep™ Viral Nucleic Acid Extraction Kit I (for low viral load specimen using carrier RNA)	50 preps 100 preps
<b>FAVVK 002</b> <b>FAVVK 002-1</b>	FavorPrep™ Viral Nucleic Acid Extraction Kit II (avoiding carrier RNA cross-contamination without using carrier RNA)	50 preps 100 preps

## Kit Component

**Kit I**  
Carrier RNA      VEN Buffer      Wash Buffer 1      Wash Buffer 2 (conc.)      RNase-Free Water  
VNE Columns      2ml Tube (for Collection)      1.5ml Tube (for Elution)

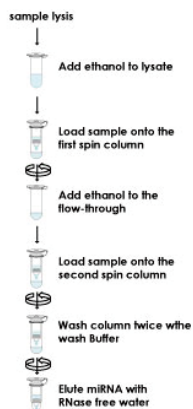
**Kit II**  
AD Buffer (concentrated)      VNE Buffer      Wash Buffer 1      Wash Buffer 2 (conc.)  
RNase-Free Water      VNE Columns      2.0ml Tube (for Collection)

## FavorPrep miRNA Isolation Kit



### Features

- **Simple and Easy use:** It is designed for purification of small RNA with minimal contamination from large RNA molecules or genomic DNA.
- **Time saving:** The entire procedure for miRNA isolation is less than 30 minutes
- **Wide Applications:** The purified miRNA can be applied in the following applications: miRNA gene expression, miRNA quantitation, cancer markers, developmental control
- **Sample Size:** Up to 100mg tissue or  $1 \times 10^6$  cultured cells.
- **Format:** Spin Column



### Order Information

Cat. No.	Product Name	Size
<b>FAMIK 001</b>	FavorPrep™ miRNA Isolation Kit	100 preps
<b>Kit Component</b>		
Lysis Buffer	Acid Pheno Wash Buffer	RNA Column Release Buffer
Collection Tube		

### Specifications

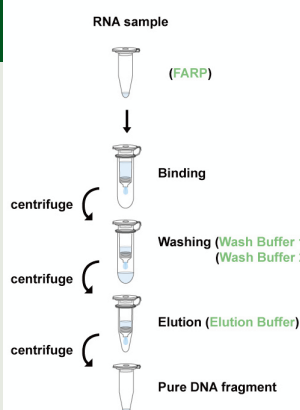
<b>Sample:</b>	Mammalian Cells (up to $1 \times 10^6$ cells) Mammalian Tissue (up to 5mg) Plant Tissue (up to 100mg) Yeast Cells (up to $2 \times 10^7$ cells) Bacterial Cells (up to $5 \times 10^6$ cells)
<b>Binding Capacity:</b>	~1mg nucleic acid
<b>Expected Yield:</b>	0.5-2ug (varies)
<b>Operation Time:</b>	Within 30 minutes

## FavorPrep After Tri-Reagent RNA Clean-UP Kit



### Features

- **Easy and Simple Procedure:** RNA clean up can be operated directly after the chloroform extraction without isopropanol precipitation.
- **High purity:** OD260/280: 1.9~2.1.
- **Sample Size:** Up to 100µl of RNA sample or enzymatic reaction mixture.
- **Format:** Spin Column



### Order Information

Cat. No.	Product Name	Size
<b>FAATR 001</b> <b>FAATR 001-1</b>	FavorPrep™ After Tri-Reagent RNA Clean Up Mini Kit	50 preps 200 preps
<b>Kit Component</b>		
FARP Buffer	Wash Buffer 1	
Wash Buffer 2(conc.)	RNase-Free Water	
FARP Mini Columns	2.0ml Tube (for Collection)	
1.5ml Tube (for Elution)		

### Specifications

<b>Sample:</b>	Up to 100 µl of RNA sample or enzymatic reaction mixture.
<b>Binding Capacity:</b>	Up to 100µg
<b>Expected Recovery:</b>	85~95%
<b>Operation Time:</b>	Within 10 minutes



## FavorPrep Tri-RNA Reagent



### Features

- **Simple and Easy use:** Single-Step for the isolation of total RNA from tissues, cells, bacteria, plants, yeasts and biological fluids.
- **Time saving:** The entire procedure for RNA isolation is less than 60 minutes
- **Wide Applications:** The purified miRNA can be applied in the following applications: RT-PCR, Northern hybridization, RNase protection, Poly-A+RNA selection, Differential display, and Micro-array assay.
- **Sample Size:** Up to 100mg tissue or  $1 \times 10^6$  cultured cells.
- **Format:** Spin Column

### Specifications

#### Sample:

10ml blood, 10mg tissue,  $1 \times 10^6$  cultured cells,  $1 \times 10^2$  of culture plate.  
Mammalian Cells (up to  $1 \times 10^6$  cells)  
Mammalian Tissue (up to 5mg)  
Plant Tissue (up to 100mg)  
Yeast Cells (up to  $2 \times 10^7$  cells)  
Bacterial Cells (up to  $5 \times 10^6$  cells)

#### Binding Capacity:

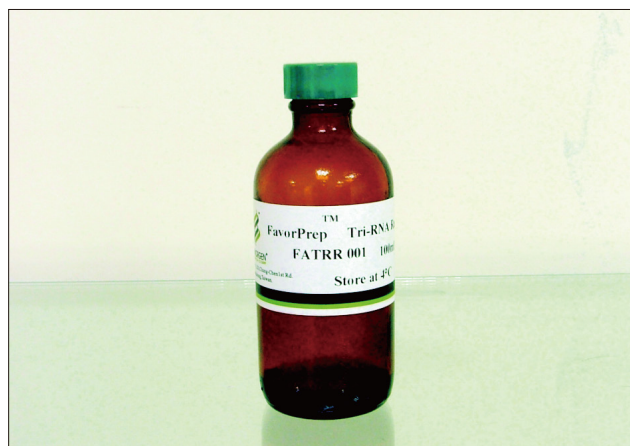
Homogenize tissue samples in 1ml tri-RNA Reagent per 50-100mg tissue using a tissue homogenizer.  
1 ml of the Tri-RNA Reagent per  $5-10 \times 10^6$  animal, plant or yeast cells, or per  $1 \times 10^7$  bacterial cells

#### Expected Yield :

varies

#### Operation Time:

Within 60 minutes



### Order Information

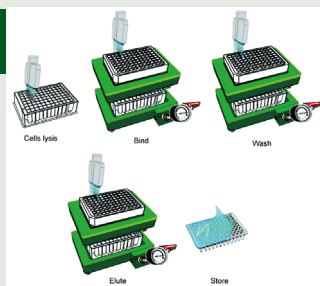
Cat. No.	Product Name	Size
<b>FATRR 001</b>	FavorPrep™ Tri-RNA Reagent	100ml (100 preps)

## FavorPrep 96 Well Plasmid Kit



### Features

- **High throughput:** It is designed for high throughput plasmid or cosmid DNA from 1-2ml of bacterial cultures. Contamination from large RNA molecules or genomic DNA.
- **High Purity:** The modified alkaline lysis method and centrifugation are used to create cleared cell lysate with minimal genomic DNA and RNA contaminants.
- **Wide Applications:** Fluorescent or radioactive sequencing, Restriction Digestion, Library Screening, and Ligation and Transformation.
- **Operations:** by vacuum manifold or by centrifugation



### Specifications

#### Sample:

1-5ml of bacterial culture

#### Binding Capacity:

Up to 30µg per well  
Elution Volume: 50-100µl

#### Expected Yield:

20-30µg of high copy plasmid  
3-10µg for low-copy plasmid

#### Operation Time:


Within 60 minutes



### Order Information

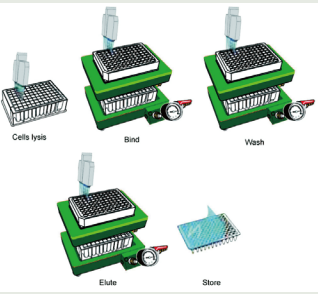
Cat. No.	Product Name	Size															
<b>FAPWE 96001</b>	FavorPrep™ 96-Well Plasmid DNA Extraction Kit	1 plate															
<b>FAPWE 96002</b>		2 plate															
<b>FAPWE 96004</b>		4 plate															
<table> <tr> <td>Kit Component</td><td></td><td></td></tr> <tr> <td>FAPD1 Buffer</td><td>FAPD2 Buffer</td><td>FAPD3 Buffer</td></tr> <tr> <td>Wash Buffer (conc.)</td><td>Elution Buffer</td><td>Plasmid Plate</td></tr> <tr> <td>0.2ml Collection Plate</td><td>Adhesive Film</td><td></td></tr> <tr> <td>RNase A (50mg/ml)</td><td>96-Well 2 ml Plate</td><td></td></tr> </table>			Kit Component			FAPD1 Buffer	FAPD2 Buffer	FAPD3 Buffer	Wash Buffer (conc.)	Elution Buffer	Plasmid Plate	0.2ml Collection Plate	Adhesive Film		RNase A (50mg/ml)	96-Well 2 ml Plate	
Kit Component																	
FAPD1 Buffer	FAPD2 Buffer	FAPD3 Buffer															
Wash Buffer (conc.)	Elution Buffer	Plasmid Plate															
0.2ml Collection Plate	Adhesive Film																
RNase A (50mg/ml)	96-Well 2 ml Plate																

## FavorPrep 96 Well Genomic DNA Kit



### Features

- **High throughput:** It is designed for high throughput total DNA from different animal samples including blood, body fluids, tissues, mouse tails, swabs or cultured cells.
- **High Purity:** Using proteinase K and a chaotropic salt, and guanidine hydrochloride to get the purified DNA.
- **Wide Applications:** The eluted RNA is ready to use in different applications: PCR, AFLP, RFLP, Southern Blotting and Real-Time PCR
- **Operations:** by vacuum manifold or by centrifugation



### Specifications


<b>Sample:</b>	200µl Fresh/Frozen Blood 25mg tissues 5x 10 <sup>6</sup> -10 <sup>7</sup> animal cultured cells 1 x 10 <sup>8</sup> bacterial cultured cells
<b>Binding Capacity:</b>	Up to 30µg per well
<b>Elution Volume:</b>	50-100µl
<b>Expected Yield:</b>	4-12µg DNA from whole blood 30-40µg from 10 <sup>7</sup> cultured cells 5-30µg from 25mg animal tissue
<b>Operation Time:</b>	Within 60 minutes



### Order Information

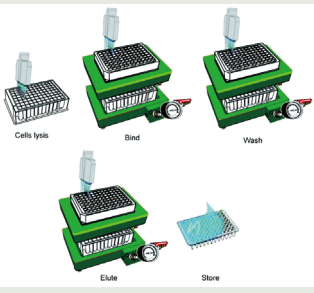
Order Information		
Cat. No.	Product Name	Size
<b>FADWE 96001</b>	FavorPrep™ 96-Well Genomic DNA Extraction Kit	1 plate
<b>FADWE 96002</b>		2 plate
<b>FADWE 96004</b>		4 plate
Kit Component		
FATG1 Buffer	FATG2 Buffer	W1 Buffer
Wash Buffer (conc.)	Elution Buffer	Proteinase K
0.2 ml Elution Plates	Adhesive Films	96-Well 2 ml Plate
96 Well Genomic DNA Binding Plates		

## FavorPrep 96-Well Gel/PCR Clean UP DNA Kit



### Features

- **High throughput:** It is designed for high throughput, rapid and economical method to purify fragmented DNA.
- **Saving Time:** The entire procedure can be completed in 30 minutes.
- **Wide Applications:** The eluted DNA is ready to use in different applications: restriction digestions, ligation, PCR and sequencing reactions.
- **Operations:** by vacuum manifold or by centrifugation



### Specifications

<b>Sample:</b>	Up to 50µl PCR product Up to 100mg agarose gel slice
<b>Binding Capacity:</b>	Up to 20µg per well
<b>Elution Volume:</b>	50~70µl
<b>Expected Recovery Rate:</b>	70~85% for gel extraction 90~95% for PCR clean up
<b>DNA Size:</b>	70bp~12Kb
<b>Operation Time:</b>	30 minutes for PCR Clean Up 40 minutes for Gel Extraction



### Order Information

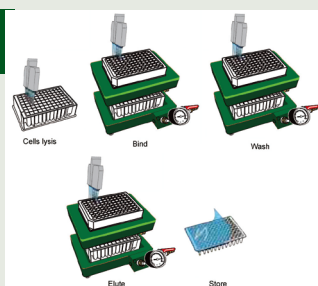
Order Information		
Cat. No.	Product Name	Size
FAPKE 96001 FAPKE 96002 FAPKE 96004	FavorPrep™ 96-Well Gel/PCR Clean Up Purification Kit	1 plate 2 plate 4 plate
Kit Component		
Binding Buffer D1 Binding Plate Adhesive Film	Wash Buffer 0.2ml Elution plate 96-Well 2 ml Plate	Elution Buffer

## FavorPrep 96 Well Viral DNA/RNA Extraction Kit



### Features

- **High throughput:** It is designed for high throughput Viral DNA/RNA from cell-free samples as serum, plasmid body fluids and the supernatant of viral infected cell culture.
- **Wide Applications:** The eluted RNA is ready to use in different applications: PCR, RT-PCR, Real Time PCR and Real-Time RT-PCR
- **Saving Time:** The entire procedure can be completed in 40 minutes
- **Operations:** by vacuum manifold or by centrifugation



### Specifications

<b>Sample:</b>	Up to 200µl
<b>Binding Capacity:</b>	Up to 60µg per well
<b>Elution Volume:</b>	50-100µl
<b>Expected Yield:</b>	>90% recovery
<b>Operation Time:</b>	Within 40 minutes

### Order Information

Cat. No.	Product Name	Size
<b>FAVRE 96001</b>	FavorPrep™ 96-Well Viral RNA/DNA Extraction Kit	1 plate
<b>FAVRE 96002</b>		2 plate
<b>FAVRE 96004</b>		4 plate

#### Kit Component

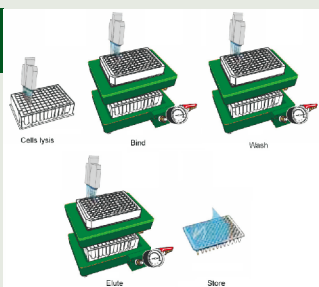
VEN Buffer	AD Buffer (conc.)	Wash Buffer 1
Wash Buffer 2 (conc.)	RNase-Free Water	
Adhesive Films	96-Well 2 ml Plate	
96 Well Lysis Plates	0.2 ml Elution Plates	
96 Well Viral DNA/RNA Binding Plates		

## FavorPrep 96-Well Total RNA Kit



### Features

- **High throughput:** It is designed for high throughput total RNA from animal cultured cells and bacterial cultured cells.
- **Wide Applications:** The eluted RNA is ready to use in different applications: RT-PCR, Quantitative RT-PCR, Differential Display, cDNA Synthesis, Northern Blot Analysis, Primer Extension, mRNA Selection, and Microarrays.
- **Operations:** by vacuum manifold or by centrifugation



### Specifications

<b>Sample:</b>	5 x 10 <sup>5</sup> animal tissue 1 x 10 <sup>9</sup> bacterial cultured cells 0.3-1ml fresh frozen blood
<b>Binding Capacity:</b>	Up to 60µg per well
<b>Elution Volume:</b>	50-100µl
<b>Expected Yield:</b>	0.5-2µg from blood sample 60ug from cultured cells
<b>Operation Time:</b>	Within 40 minutes

### Order Information

Cat. No.	Product Name	Size
<b>FATRE 96001</b>	FavorPrep™ 96-Well Total RAN Kit	1 plate
<b>FATRE 96002</b>		2 plate
<b>FATRE 96003</b>		4 plate

#### Kit Component

Lysis Buffer	Wash Buffer 1
RNase-Free Water	Wash Buffer 2
Adhesive Films	96-Well 2 ml Plate
0.2 ml Elution Plates	96 Well RNA Binding Plates





# Q & A: Nucleic Acid Extraction Kits

## I. Re: Expired Date

**Q1: How long is the shelf life for each one of nucleic acid extraction kits?**

**A1: kits are with Enzymes: Plasmid DNA Extraction Kits (w/RNase A)/Genomic DNA Extraction Kits (w/Proteinase K or Protease)**

Please tell your customer the expired date is production date plus 12 months. For example, the expired date for the Lot Number 08060001 should be June 30, 2009. Kit with enzymes are suitable for at least 1 year after delivery when stored at room temperature 15-25°C. For storage longer than 2 years or if ambient temperature often exceed 25°C, please suggest users to take out the enzymes to store the enzymes at 2~8°C (or for longer life at -20°C).

**kits are without Enzymes: Total RNA Extraction Kits/Gel Purification Kits /PCR Clean up Kits /GEL-PCR Purification Kits/Viral RNA-DNA Extraction kits**

Please tell your customer the expired date is production date plus 24 months. For example, the expired date for the Lot Number 0806001 should be June 30, 2010

## II. Re: Storage Condition

**Q2: The label stats that 'Storage: Be stored at Room temperature (15-25°C), RNase A should be kept at -20°C upon receipt 'Not only RNase A but also Proteinase K, Carrier RNA or some other buffers need to be stored at specific temperature. The question is can we leave at room temperature (15-25 degree) before we open the extraction kits (use the extraction kit)?**

**A2:** The whole kit has better to be kept at 15-25°C. The components, Proteinase K and RNase A need to be store at 2~8°C (for longer life at -20°C.) If the distributors wants to stock the kits, he can keep the whole kit with the special components at 15-25°C without any problem. If the distributors don't tear off the Seal Label, don't open the kit and store the kit at the correct environment, the kits could have the shelf life as long as we announce. When the kit is sold to the users, please ask them to take the special components out from the box to keep at 2~8°C (for longer life at -20°C.); especially, they have used these components.

## III. Re: Plasmid DNA Extraction Kit

**Q3: In the market, some Plasmid DNA Extractions are equipped with Silica Gel, but some kits are equipped with the silica membrane. What are the differences between these two systems? How should we suggest users to make correct selection?**

**A3:(1)** Silica Gel (Ion Exchange) and Silica Membrane are two different systems. Both of them can exist at same time. There is no need to replace each other. You can suggest your customer to make the best collection according to their need and budget.

**(2)** Silica Gel (Ion Exchange) and Silica Membrane had different features. Please suggest your customers to make selection based on the features.

**A.Silica Gel (Ion Exchange):**

**<a>:** Advantage: It can purify higher Plasmid DNA from a large scale of sample. (ratio > 1.8) If the users repeat to purify the same DNA, they can reuse the extraction columns. And then, the cost would be more economic.

**<b>:** Disadvantage: Comparing to Silica Membrane, the silica gel needs longer operation time.

**B.Silica Membrane**

**<a>:** Advantage: Shorter operation time and less expensive than the silica gel.

**<b>:** Disadvantage: Comparing to silica gel, the purity is much lower.

**Q4: Does Favorgen have the extraction kits with silica gel (ion exchange)?**

**A4:** Favorgen Plasmid DNA Extraction Midi/Maxi Kit with Ion Exchange

**Q5: What are the differences between Plasmid DNA Maxi Kit (FAPDE 003) and Filter Plasmid DNA Extraction Maxi Kit (FAFTE 001)? Can filter plasmid DNA Extraction kit process larger sample or get higher purified products?**

**A5:** Actually, two kits have the same yield rate, sample size, and purity. The only one difference between these two kits is the operation procedure.

For Plasmid DNA Extraction Maxi Kit (FAPDE 003), user needs to centrifuge after the cell lysis. But, Filter Plasmid DNA Extraction Maxi Kit (FAFTE 001) equipped with a syringe can save the centrifuge step. Comparing with FAPDE 003, FAFTE 001 can save 20~30 minutes. Total operation procedure can be done around 100 minutes.

Product Name	Recommended Culture Volume		Expected Yield
	High Copy Plasmid	Low Copy Plasmid	
Plasmid DNA Midi Kit	100-200µg	25-100µg	up to 200µg
Plasmid DNA Maxi Kit	300-500µg	50-250µg	up to 500µg
Filter Plasmid DNA Maxi Kit	300-500µg	50-250µg	up to 500µg

## IV. Re: GEL/PCR Purification Kit

**Q6: What difference is there between GEL Purification Kit (FAGPK) and GEL/PCR Purification Kit (FAGCK)?**

**A6:** Favorgen Gel + PCR 2 in 1 purification kit is designed especially for the convenient/quick check. Based on this kit, users use buffer at a specific fixed volume, no matter how much sample is loaded. But Favorgen Gel Purification Kit or PCR Clean up Kit asks the user to use buffer depending the sample size. Larger samples needs buffer at larger volume. Of course, by the correct buffer volume, the user will get the higher yield rate and higher purity than the users use the Gel/PCR Purification (2 in 1) Kit. If users want to have the same yield rate or purity from Gel/PCR 2 in 1 purification kit same as he get from Gel Purification Kit or PCR Clean UP Kit, please suggest them to follow up the protocol of the Gel or PCR purification Kit. But by doing this, the buffer will used up more quickly than the spin columns do... In the other words, the kit will leave some columns when the buffer is used up. However, please let your users know that Gel+PCR 2 in 1 purification kit doesn't have the same yield rate and purity as the Gel or PCR purification Kit. If they ask strictly about the yield rate or purity, please do suggest them to buy the Gel or PCR purification kit.

**P. S.:** Explanation for the price difference between GEL Purification Kit (FAGPK) and GEL/PCR Purification Kit (FAGCK)

**Lysis Buffer 240ml for 300 preparations of Favorgen Gel/ PCR 2 in 1 purification kit**

**Lysis Buffer 250ml for 200 preparations of Gel Purification Kit or PCR Clean up Kit.**

**The cost of Lysis Buffer is very expensive. Cost of Lysis Buffer shares a lot portion.**

**Q7: What is the different between FAGCK001 and FAEPK001 Kit (Gel/PCR purification kit)?**

**A7:** FAEPK001 can obtain 10ul high concentration of DNA for further experiment.

**Q8: Do you have a kit for gel extraction of bands 20kb or more? What is the minimum size that the gel purification kit be used with (eg. 538bp band)**

**A8:** The yield rate for DNA size at 700bp ~12Kb extracted by FavorPrep Gel Purification Kit is very good. The DNA band at 20Kb or 538bp also can be extracted by this kit, but its yield rate is very low.

## V. Re: Genomic DAN Extraction Kit

**Q9: Favorgen Blood Genomic Extraction kits use different enzymes. What is the difference between these enzymes?**

**A9:** The following message is very important for your promoting Favorgen Blood Genomic Extraction Kits. Please let your sales know.

**Comparison Between Qiagen Favorgen about Blood Genomic Extraction Kits**

**FABGK 001 & FABGK 001-1 FavorPrep™ Blood Genomic DNA Extraction Mini Kit, FABGK 003 & FABGK 003-1 FavroPrep™ Blood Genomic DNA Extraction Maxi Kit**

	Qiagen	Favorgen
Blood Genomic Extraction Mini Kit	Kit using Proteinase K	Kit using Proteinase K Kit using RBC Lysis Buffer
Blood Genomic Extraction Maxi Kit	Kit using Proteinase	Kit using Protease Kit using Proteinase K

**with Proteinase K**

1. Proteinase K can be used for frozen blood, fresh blood or dried blood.

2. Proteinase K is much more expensive than Lysis Buffer or Protease

3. Proteinase K has a short operation time: Breaking cell more quickly than using by Protease or Lysis buffer

4. Proteinase K can get a higher purity

5. Proteinase K has more wide applications than Protease and Lysis Buffer

**FABGK 003-3 & FABGK 003-4 FavorPrep™ Blood Genomic DNA Extraction Maxi Kit**

## **FABGK 004 & FABGK 004-1 FavorPrep™ Blood Genomic DNA Extraction Mini Kit with Lysis Buffer**

1. Lysis buffer only can be used for fresh blood.
2. Lysis buffer is cheaper than Proteinase K and Protease
3. Lysis buffer needs a longer operation time than Proteinase K or Protease: Lysis buffer can't break cell directly. In the procedure, the users have to add one more solution to break cell. Therefore, the operation time is much longer than Proteinase K or Protease.
4. The yield rate and purity of Lysis Buffers lower than Proteinase K or Protease, but it is much cheaper.

**Q10: Re: Tissue Genomic DNA Extraction Mini Kit (FATGK) Time for completing the whole procedure ranges from an hour to two hours. Which sample requests the longest time for the treatment?**

**A10:** The sample contains more connective tissues, the longer operation time it takes. Please see the examples as followings:

Longer operation time: 1). Mouse Tail, 2). Lung, 3). Heart, and 4). Muscle Shorter operation time: 1). Liver, 2) Brain, 3). Kidney, 4). Blood, 5). Buffy coat, 6). Cultured cells, and 7). Bacterial cells

**Q11: Can FavorPrep Tissue Genomic DNA Extraction Kit be used for extraction of DNA from Tracheal swabs?**

**A11:** FavorPrep Tissue Genomic DNA Kit can be used for extraction of DNA from Tracheal swabs. But we need to add some steps onto the protocol for getting the tissue from the swab correctly. Upon receipt of your confirmation, we will send you a revised protocol for the FavorPrep Tissue Genomic DNA Extraction Kit to do DNA extraction from Tracheal swabs.

**Q12: Do you have any kits for the extraction as below.**

1. DNA from Dry blood spots
2. RNA from dry blood spots
3. DNA from breast milk
4. RNA from breast milk

**A12:**

**(1) Favorgen Cat No: FATGK 001/002 (Tissue Genomic DNA Mini Kit ) is adaptable for DNA extraction from dried blood spot & breast milk.**

Please refer to the protocol of FATGK 001/002. You can find that the operation procedure for DNA extraction from the dried blood spot. We still can use this kit of FATGK 001/002 for DNA extraction from breast milk, but we will provide a new protocol for this operation procedure in case of need from customers.

**(2) Favorgen Cat No: FABRK 001, 001-1 (Blood/Cultured Cell Total Mini Kit) is adaptable for RNA extraction from dried blood spot & breast milk.**

But the yield of RNA will depend on the sample stability and storage condition. If user wants to proceed these sample (dried blood & breast milk) to extract RNA, we have to offer this two special protocols

**Q13: Tissue Genomic DNA extraction mini kit (FATGK) can use for extract DNA from FFPE. Is it necessary to de-paraffin beforehand?**

**A13:** Yes, it is necessary to de-paraffin beforehand. Generally, there are two types of samples as below.

### **I. For paraffin-embedded tissues**

1. Cut up to 25 mg paraffin-embedded tissue sample to a microcentrifuge tube(not provided).
2. Add 1 ml xylene, mix well and incubate at room temperature for 30 min. Centrifuge at full speed for 5 min. Remove the supernatant by pipetting. Add 1 ml ethanol (96~100%) to the deparaffined tissue, mix gently by vortexing.
3. Centrifuge at full speed for 5 min. Remove the supernatant by pipetting.
4. Add 1 ml ethanol (96 ~ 100%) to the deparaffined tissue, mix gently by vortexing.
5. Centrifuge at full speed for 5 min. Remove the supernatant by pipetting.
6. Incubate at 37°C for 10 min to evaporate ethanol residue.
7. Grind the tissue sample by micropestle or liquid nitrogen and follow the General Protocol starting from step 2.

### **II. For formalin-fixed tissues**

1. Wash 25mg tissue sample twice with 1 ml PBS to remove formalin.
2. Grind the tissue sample by micropestle or liquid nitrogen and follow the General Protocol starting from step 2.

## **VI. Re: Total RNA Extraction Kit**

**Q14: Re: Tissue Total RNA Purification Kit (FATRK). 1) How much Genome DNA contamination is observed after using Tissue Total RNA (kit) 2. When they need higher purified product, do you recommend using TRIure? (Of course, on catalog, it is mentioned that extracted total RNA is suitable for direct use of various downstream application. But, the customer is currently using TRIse to further purify total RNA. In my understanding, on Favorgen's catalog, there is Tri-RNA Reagent (FATRE001) which is quite similar to TRIure. Is it possible to use Tri-RNA Reagent to further purify total RNA after the extraction?)**

**A14:** 1. Genomic DNA can't be observed in Gel. Its OD value is same as RNA's OD. All kits will get the same result. The Genomic DNA always still exist after the RNA purification. Favorgen Total RNA Purification Kit is very good to get the lowest Genomic DNA contamination. If you need the Genomic DNA free, you have to use the DNase I to clear up all of the Genomic DNA contamination. 2. Tri-RNA Reagent is similar to your TRIure. Actually, these products can purify a large sample to get higher yield but can't get higher purity. If you want to have higher purity, you recommend FavorPrep [After-Tri-Reagent RNA Clean Up Kit](#) to have higher purity after Tri-Reagent or TRIure.

**Q15: Re: Plant Total RNA Mini kit (for Woody Plant) (FAPRK003). What is the difference between Plant Total RNA Mini kit? What kind of samples can we use for FAPRK003? If you could provide some example of the usage, that would help.**

**A15:** Our FAPRK 003 & 003-1 is specially designed for the plant with many fibers, such as the Palm, Fruit Tress (Apple). This kit needs one more step than FAPRK 001 or 002 to deal with the fiber.

**Q16: Re: Total RNA Extraction kit. Is DNase I is included in the kit? My customer needs the DNase I for the Total RNA Extraction Kit.**

**A16:** So far, all of Favorgen RNA mini kit doesn't include DNase I. The price for the RNA mini kit doesn't include DNase I. The reason why we don't include DNase I in the kit is because DNase I has to be stored at -20. Actually we provide the DNase I for all of RNA kits.

Favorgen RNA Extraction Kit doesn't include DNase I. But we can offer the DNase I for the customers. User needs to buy DNase I separately. 1 reaction needs 3 units of DNase I. Therefore, if you buy a kit with 50 reactions, you need to buy additional 3 vials of DNase I (500ul), total 1,500units.

## **VII. Re: Viral RNA/DNA Extraction Kit**

**Q17: What is the difference between Viral Nucleic Extraction Kit I and Kit II?**

**A17:** Kit I is specially design for low viral load specimen. Kit II is specially designed to avoid carrier RNA cross-contamination. If you users adopt the Qiagen's format, please suggest Favorgen Viral Nucleic Extraction Kit I for them to replace.

**Q18: May I know which viral nucleic acid extraction kit, I or II, is more suitable to extract RNA for HCV PCR detection? What is the benefit of carrier RNA in the kit?**

**A18:** Both of two kits are suitable to extract RNA for HCV PCR detection. Kit I is specially designed for low viral load specimen. Kit II is specially designed to avoid carrier RNA cross-contamination. So, when the titer is very low, we need carrier RNA in the kit.

## **VIII. Re: After Tri-RNA Extraction Kit**

**Q19: Is Favor Tri-RNA reagent suitable for wide range of samples e.g. blood, serum, plasma, body fluid, urine and cornea or please suggest a kit?**

**A19:**

**(1).** Yes, Favor-Tri-RNA reagent is suitable for wide range. But this reagent can not get a very good purity. So, we suggest that if you want to get high purity, you need to use Favorgen **After Tri-Reagent RNA Extraction Kit**. Please refer to the attachment.

**(2).** Meanwhile, we recommend FavorPrep Blood/cultured Cell Total RNA Purification Min & Maxi kit. This kit can be used widely and also can get high purity.

## **IIIX. Re: Collection Tubes**

**Q20: Re: Tubes. Is it possible for user to use the collection tubes as the regular tubes in his daily experiment?**

**A20:** No. The collection tubes in the kit are specially designed for collection of flow-through columns. It is not for the centrifugation in the lab.

# Nucleic Acids Extraction

## Spin Column System

### 1.1 Column System: Plasmid DNA

Cat. No.	Product Name	Content	Storage Temperature
FAPDE 001	FavorPrep™ Plasmid DNA Extraction Mini Kit	Q'tye: 100preps.Yield: up to 30µg of high-copy plasmids	15~25°C
FAPDE 001-1	FavorPrep™ Plasmid DNA Extraction Mini Kit	Q'tye: 300preps.Yield: up to 30µg of high-copy plasmids	15~25°C
FAPDE 002	FavorPrep™ Plasmid DNA Extraction Midi Kit	Q'tye: 25preps.(lon Exchange, High Yield/Purity)	15~25°C
FAPDE 002-1	FavorPrep™ Plasmid DNA Extraction Midi Kit	Q'tye: 50preps.(lon Exchange, High Yield/Purity)	15~25°C
FAPDE 002-EF	FavorPrep™ EndoToxinFree Plasmid DNA Extraction Midi Kit	Q'tye: 10preps.(lon Exchange, High Yield/Purity)	15~25°C
FAPDE 003	FavorPrep™ Plasmid DNA Extraction Maxi Kit	Q'tye: 10preps.(lon Exchange, High Yield/Purity)	15~25°C
FAPDE 003-1	FavorPrep™ Plasmid DNA Extraction Maxi Kit	Q'tye: 20preps.(lon Exchange, High Yield/Purity)Yield:up to 1mg	15~25°C
FAPDE 003-EF	FavorPrep™ EndoToxinFree Plasmid DNA Extraction Maxi Kit	Q'tye: 10preps.(lon Exchange, High Yield/Purity)	15~25°C
FAFTE 001	FavorPrep™ FavorFilter Plasmid DNA Extraction Maxi Kit	Q'tye: 4preps.(lon Exchange, High Yield/Purity)	15~25°C
FAFTE 001-1	FavorPrep™ FavorFilter Plasmid DNA Extraction Maxi Kit	Q'tye: 10preps.(lon Exchange, High Yield/Purity)	15~25°C
FAFTE 001-EF	FavorPrep™ FavorFilter Extraction Free Plasmid DNA Extraction Maxi Kit	Q'tye: 4preps.(lon Exchange, High Yield/Purity)	15~25°C

### 1.2 Column System: DNA Clean UP

Cat. No.	Product Name	Content	Storage Temperature
FAGCK 001	FavorPrep™ GEL/PCR Purification Mini Kit	Q'tye: 100preps.	15~25°C
FAGCK 001-1	FavorPrep™ GEL/PCR Purification Mini Kit	Q'tye: 300preps.	15~25°C
FAPCK 001	FavorPrep™ PCR Clean-Up Mini Kit	Q'tye: 50preps.	15~25°C
FAPCK 001-1	FavorPrep™ PCR Clean-Up Mini Kit	Q'tye: 200preps.	15~25°C
FAGPK 001	FavorPrep™ GEL Purification Mini Kit	Q'tye: 50preps.	15~25°C
FAGPK 001-1	FavorPrep™ GEL Purification Mini Kit	Q'tye: 200preps.	15~25°C
FAMPK 001	FavorPrep™ MicroElute PCR Clean UP Kit	Q'tye: 50preps.	15~25°C
FAMPK 001-1	FavorPrep™ MicroElute PCR Clean UP Kit	Q'tye: 200preps.	15~25°C
FAMGK 001	FavorPrep™ MicroElute GEL Purification Kit	Q'tye: 50preps.	15~25°C
FAMGK 001-1	FavorPrep™ MicroElute GEL Purification Kit	Q'tye: 200preps.	15~25°C
FAEPK 001	FavorPrep™ MicroElute GEL/PCR Purification Kit	Q'tye: 50preps.	15~25°C
FAEPK 001-1	FavorPrep™ MicroElute GEL/PCR Purification Kit	Q'tye: 200preps.	15~25°C

### 1.3 Column System: Genomic DNA----1. Blood Gnomic

Cat. No.	Product Name	Content	Storage Temperature
FABGK 001	FavorPrep™ Blood Genomic DNA Extraction Mini Kit (for wide applications and simple procedure)	Q'tye: 50preps. Proteinase K Powder	15~25°C
FABGK 001-1	FavorPrep™ Blood Genomic DNA Extraction Mini Kit (for wide applications and simple procedure)	Q'tye: 100preps. Proteinase K Powder	15~25°C
FABGK 001-2	FavorPrep™ Blood Genomic DNA Extraction Mini Kit (for wide applications and simple procedure)	Q'tye: 300preps. Proteinase K Powder	15~25°C
FABGK 100	FavorPrep™ Blood Genomic DNA Extraction Mini Kit	Q'tye: 100preps.	15~25°C
FABGK 300	FavorPrep™ Blood Genomic DNA Extraction Mini Kit	Q'tye: 300preps.	15~25°C

### 1.3 Column System: Genomic DNA---2. Tissue Gnomic

Cat. No.	Product Name	Content	Storage Temperature
FATGK 001	FavorPrep™ Tissue Genomic DNA Extraction Mini Kit	Q'tye: 50preps. Proteinase K Powder	15~25°C
FATGK 001-1	FavorPrep™ Tissue Genomic DNA Extraction Mini Kit	Q'tye: 100preps. Proteinase K Powder	15~25°C
FATGK 001-2	FavorPrep™ Tissue Genomic DNA Extraction Mini Kit	Q'tye: 300preps. Proteinase K Powder	15~25°C

### 1.3 Column System: Genomic DNA---3. Plant Gnomic

Cat. No.	Product Name	Content	Storage Temperature
FAPGK 001	FavorPrep™ Plant Genomic DNA Extraction Mini Kit	Q'tye: 50preps.	15~25°C
FAPGK 001-1	FavorPrep™ Plant Genomic DNA Extraction Mini Kit	Q'tye: 100preps.	15~25°C
FAPGK 002	FavorPrep™ Plant Genomic DNA Extraction Maxi Kit	Q'tye: 10preps.	15~25°C
FAPGK 002-1	FavorPrep™ Plant Genomic DNA Extraction Maxi Kit	Q'tye: 24preps.	15~25°C

### 1.3 Column System: Genomic DNA---4. Stool Gnomic

Cat. No.	Product Name	Content	Storage Temperature
FASTI 001	FavorPrep™ Stool DNA Isolation Mini Kit	Q'tye: 50preps. Proteinase K	15~25°C
FASTI 001-1	FavorPrep™ Stool DNA Isolation Mini Kit	Q'tye: 100preps. Proteinase K	15~25°C

### 1.3 Column System: Genomic DNA---5. Soil Gnomic

Cat. No.	Product Name	Content	Storage Temperature
FASOI 001	FavorPrep™ Soil DNA Isolation Mini Kit	Q'tye: 50preps.	15~25°C
FASOI 001-1	FavorPrep™ Soil DNA Isolation Mini Kit	Q'tye: 100preps.	15~25°C
FASOI 002	FavorPrep™ Soil DNA Isolation Midi Kit	Q'tye: 24preps.	15~25°C



# Distributor in Czechia and Slovakia: [www.biologicals.cz/e-shop](http://www.biologicals.cz/e-shop)

## 1.4 Column System: Total RNA---1. Blood RNA

Cat. No.	Product Name	Content	Storage Temperature
FABRK 001	FavorPrep™ Blood /Cultured Cell Total RNA Mini Kit	Q'tye: 50preps.	15~25°C
FABRK 001-1	FavorPrep™ Blood /Cultured Cell Total RNA Mini Kit	Q'tye: 100preps.	15~25°C
FABRK 001-2	FavorPrep™ Blood /Cultured Cell Total RNA Mini Kit	Q'tye: 300preps.	15~25°C
FABRK 003	FavorPrep™ Blood /Cultured Cell Total RNA Maxi Kit	Q'tye: 10preps.	15~25°C
FABRK 003-1	FavorPrep™ Blood /Cultured Cell Total RNA Maxi Kit	Q'tye: 24preps.	15~25°C

## 1.4 Column System: Total RNA---2. Tissue RNA

Cat. No.	Product Name	Content	Storage Temperature
FATRK 001	FavorPrep™ Tissue Total RNA Mini Kit	Q'tye: 50preps.	15~25°C
FATRK 001-1	FavorPrep™ Tissue Total RNA Mini Kit	Q'tye: 100preps.	15~25°C
FATRK 001-2	FavorPrep™ Tissue Total RNA Mini Kit	Q'tye: 300preps.	15~25°C
FATRK 003	FavorPrep™ Tissue Total RNA Maxi Kit	Q'tye: 10preps.	15~25°C
FATRK 003-1	FavorPrep™ Tissue Total RNA Maxi Kit	Q'tye: 24preps.	15~25°C

## 1.4 Column System: Total RNA---3. Plant RNA

Cat. No.	Product Name	Content	Storage Temperature
FAPRK 001	FavorPrep™ Plant Total RNA Mini Kit	Q'tye: 50preps.	15~25°C
FAPRK 001-1	FavorPrep™ Plant Total RNA Mini Kit	Q'tye: 100preps.	15~25°C
FAPRK 001-2	FavorPrep™ Plant Total RNA Mini Kit	Q'tye: 300preps.	15~25°C
FAPRK 002	FavorPrep™ Plant Total RNA Maxi Kit	Q'tye: 10preps.	15~25°C
FAPRK 002-1	FavorPrep™ Plant Total RNA Maxi Kit	Q'tye: 24preps.	15~25°C
FAPRK 003	FavorPrep™ Plant Total RNA Mini Kit(for Woody Plant)	Q'tye: 50preps.	15~25°C
FAPRK 003-1	FavorPrep™ Plant Total RNA Mini Kit(for Woody Plant)	Q'tye: 100preps.	15~25°C

## 1.4 Column System: Total RNA---4. Viral RNA/DNA

Cat. No.	Product Name	Content	Storage Temperature
FAVVK 001	FavorPrep™ Viral Nucleic AcidExtraction Kit I (for low viral load specimen using carrier RNA)	Q'tye: 50preps. Carrier RNA	15~25°C
FAVVK 001-1	FavorPrep™ Viral Nucleic AcidExtraction Kit I (for low viral load specimen using carrier RNA)	Q'tye: 100preps. Carrier RNA	15~25°C
FAVVK 001-2	FavorPrep™ Viral Nucleic AcidExtraction Kit I (for low viral load specimen using carrier RNA)	Q'tye: 300preps. Carrier RNA	15~25°C
FAVVK 002	FavorPrep™ Viral Nucleic AcidExtraction Kit II (avoiding carrier RNA cross-contamination without using carrier RNA)	Q'tye: 50preps. VB Lysis Buffer	15~25°C
FAVVK 002-1	FavorPrep™ Viral Nucleic AcidExtraction Kit II (avoiding carrier RNA cross-contamination without using carrier RNA)	Q'tye: 100preps. VB Lysis Buffer	15~25°C
FAVVK 002-2	FavorPrep™ Viral Nucleic AcidExtraction Kit II (avoiding carrier RNA cross-contamination without using carrier RNA)	Q'tye: 300preps. VB Lysis Buffer	15~25°C

## 1.5 Column System: After Tri-Reagent

Cat. No.	Product Name	Content	Storage Temperature
FAATR 001	FavorPrep™ RNA Purification Mini Kit (After Trizol Reagent)	Q'tye: 50preps.	15~25°C
FAATR 001-1	FavorPrep™ RNA Purification Mini Kit (After Trizol Reagent)	Q'tye: 200preps.	15~25°C

## 96 Well Plate System

### 2. 96-Well System

Cat. No.	Product Name	Content	Storage Temperature
FAPWE 96002	FavorPrep™ 96-well Plasmid DNA Extraction Kit	Q'tye: 2plates	15~25°C
FAPWE 96004	FavorPrep™ 96-well Plasmid DNA Extraction Kit	Q'tye: 4plates	15~25°C
FADWE 96002	FavorPrep™ 96-well Genomic DNA Extraction Kit	Q'tye: 2plates	15~25°C
FADWE 96004	FavorPrep™ 96-well Genomic DNA Extraction Kit	Q'tye: 4plates	15~25°C
FAPKE 96002	FavorPrep™ 96-well Gel/ PCR Clean-Up DNA Kit	Q'tye: 2plates	15~25°C
FAPKE 96004	FavorPrep™ 96-well Gel/ PCR Clean-Up DNA Kit	Q'tye: 4plates	15~25°C
FACKE 96002	96-well PCR Clean-Up Kit	Q'tye: 2plates	15~25°C
FACKE 96004	96-well PCR Clean-Up Kit	Q'tye: 4plates	15~25°C
FAGKE 96002	96-well GEL Purification Kit	Q'tye: 2plates	15~25°C
FAGKE 96004	96-well GEL Purification Kit	Q'tye: 4plates	15~25°C
FATRE 96002	96-well Total RNA Kit	Q'tye: 2plates	15~25°C
FATRE 96004	96-well Total RNA Kit	Q'tye: 4plates	15~25°C
FAVRE 96002	96-well Viral RNA/DNA Extraction Kit	Q'tye: 2plates	15~25°C
FAVRE 96004	96-well Viral RNA/DNA Extraction Kit	Q'tye: 4plates	15~25°C
FAPGE 96002	96-well Plant Genomic DNA Extraction Kit	Q'tye: 2plates	15~25°C
FAPGE 96004	96-well Plant Genomic DNA Extraction Kit	Q'tye: 4plates	15~25°C

### 3. Reagents System

Cat. No.	Product Name	Content	Storage Temperature
FATRR 001	Tri-RNA Reagent	Volume: 100ml	4°C
FATRR 003	Tri-RNA Reagent	Volume: 450ml	4°C
FARSS 001	RNA Stabilization Solution	Volume: 100ml	4°C
FAMIK 001	miRNA Isolation Kit	Rxns: 100	4°C