Ver. 2412-01

PureHelix™ *Gel* Extraction Kit

Kit contents

PureHelix™ *Gel Extraction* Kit		
Cat. No.	**GE50** (50preps)	**GE200** (200preps)
GEB	75ml	100ml x 3ea
EB	5ml	20ml
WB	15ml (Add 60ml ethanol)	40ml (Add 160ml ethanol)
MaxBinder™ Solution	5ml	20ml
Column set (with cap) 50ea/**Blue Box**	1box	4box
Instructions for Use	1ea	1ea

Description

PureHelix™ *Gel* Extraction Kit is designed for rapid, high-yield and high-quality isolation of any type of DNA, such as Plasmid, PCR product, digested DNA etc. from agarose gel. **PureHelix™ *Gel* Extraction Kit** contains a silica membrane assembly for binding of DNA in high-salt buffer and elution with low-salt buffer or water. The purification procedure removes agarose, ethidium bromide and other impurities from DNA samples.

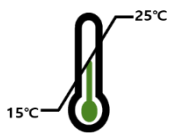
Applications

Automatic fluorescent sequencing

Restriction digestion

Ligation and transformation

Storage



Room temperature

Shelf life

12 months

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Quality Control

Each lot of **PureHelix™ *Gel* Extraction Kit** was tested against predetermined specifications to ensure consistent product quality.

Protocol

Important things to do before starting

- Prepare the **Isopropanol** (2-propanol) **(not provided in this kit).**
- Before using **WB**, add **absolute ethanol** according to the bottle label to obtain a working solution. You may use 80% ethanol, instead of WB. Ethanol does not supplied in this kit.

1. Excise the Gel

1) Cut the area of gel containing the DNA fragment using the gel gutting apparatus.
2) Transfer the excised gel to a clean 1.5 ml tube and **weigh the gel slice**.

2. Dissolve the Gel

1) Add **3 volumes of GEB (v/w)** to 1 volume of the sliced gel.
   ※ **For example, add 300 µl of GEB to each 100mg (approx. 100 µl) gel.**
   ※ **For gels of higher concentration than 2.5% agarose, add 6 volumes of GEB per gel volume.**
2) Incubate at **60℃ for 10-20 min** with occasional mixing to **ensure gel dissolution**.
3) Add 1 volume of **Isopropanol** per gel volume to the dissolved gel and mix well.

3. Column Activation

1) Place a **Spin Column** into a **2 ml collection tube.**
2) **Add 100 µl of MaxBinder™ Solution** into the Spin Column.
3) Centrifuge at **12,000 rpm for 30 sec** and immediately proceed to Step 4**.**
   You need not discard the flow-through from the collection tube.
   ※ **These steps are required for the best yield.**

4. Column Loading

1) Apply the sample mixture from step 2 into the activated Spin Column.
2) Centrifuge at **12,000 rpm for 30 sec** in a microcentrifuge.
3) Discard the flow-through. Place the Spin Column into a 2 ml collection tube again.

5. Column Washing

1) Apply **750 µl of WB (80% ethanol)** to the Spin Column. Centrifuge at **12,000 rpm for 30 sec** and discard the flow-through.
   ※ **Repeat this step for high-purity DNA preparation.**
2) Centrifuge again for 2 min to remove residual ethanol.
   ※ **WB which is kept long time makes to decrease the concentration of ethanol and it could drop DNA yield finally.**

6. Elution

1) Place the Spin Column into a clean 1.5 ml microcentrifuge tube (not provided).
2) Add **30 ~ 50 µl of EB** or distilled water to center of the column membrane, and **incubate for 1 min at room temperature**.
3) Centrifuge at **12,000 rpm for 1 min** to elute DNA.

Products

Cat. No.	Products	Size
GE50	PureHelix™ *Gel* Extraction Kit	50preps
GE200	PureHelix™ *Gel* Extraction Kit	200preps

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