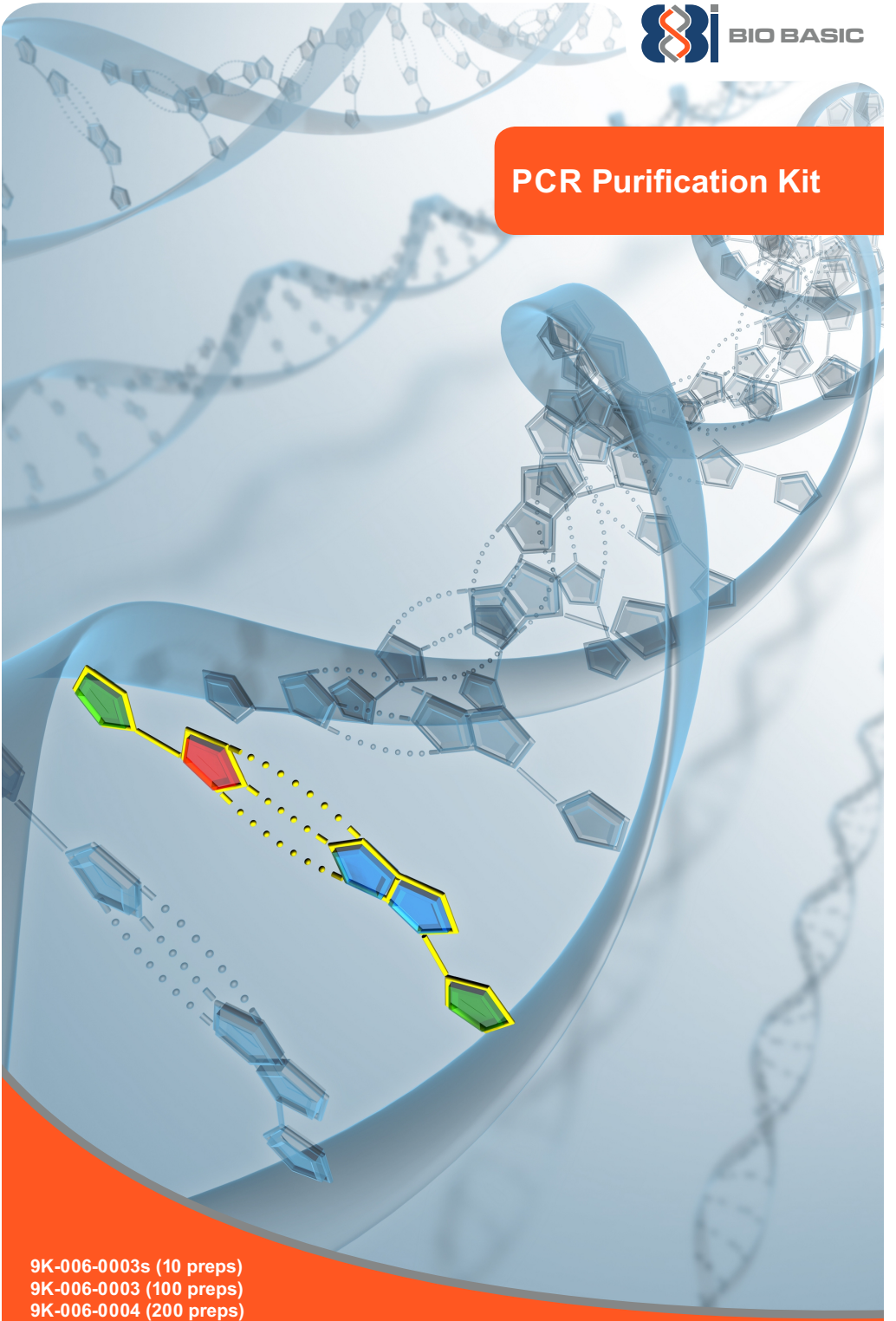

BIO BASIC

PCR Purification Kit

9K-006-0003s (10 preps)
9K-006-0003 (100 preps)
9K-006-0004 (200 preps)

QF 24 TV4 Rev 1, 2017
QF 24 CV2 Rev 1, 2017

For Research Use Only

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PCR Purification Kit

BIO BASIC INC.

PCR Purification Kit

Introduction

Feldan PCR Purification Kit is an excellent tool offering a rapid and economic method to purify DNA samples from any enzymatic reactions. This technology is based on binding DNA to silica-based membrane, followed by subsequent wash steps and then elute pure ready-to-use DNA. The very high quality purified DNA can be used directly for any critical downstream application.

Specification

Sampling	Recovery	Volume of eluate	Handling Time
Up to 100 µL of PCR / Enzymatic reaction	80 ~ 95 %	25 ~ 50 µL	Within 15 min

Kit Contents

	9K-006-0003s (10 preps)	9K-006-0003 (100 preps)	9K-006-0004 (200 preps)
PCR 1 Dilution Solution*	4 mL	40 mL	80 mL
PCR 2 Washing Solution**	2 mL	20 mL	40 mL
PCR 3 Elution Solution	1 mL	10 mL	20 mL
PCR Column	10 pcs	100 pcs	200 pcs
Collection Tube	10 pcs	100 pcs	200 pcs

* Add 1.7 mL / 17 mL / 34 mL of ethanol (96 ~ 100%) to **PCR 1** Dilution Solution when first open.

** Add 8 mL / 80 mL / 160 mL of ethanol (96 ~ 100%) to **PCR 2** Washing Solution when first open.

PCR Purification Kit

Important Notes

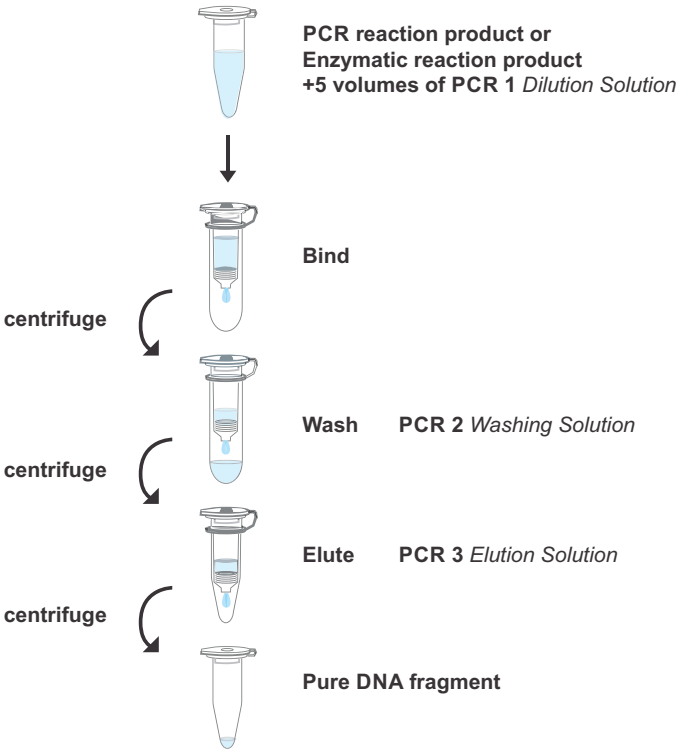
1. Solutions provided in this kit contain irritants, wear gloves and lab coat when handling.

2. For 9K-006-0003s, add 1.7 mL ethanol (96 ~ 100%) to **PCR 1** Dilution Solution when first open.
   For 9K-006-0003, add 17 mL ethanol (96 ~ 100%) to **PCR 1** Dilution Solution when first open.
   For 9K-006-0004, add 34 mL ethanol (96 ~ 100%) to **PCR 1** Dilution Solution when first open.

3. For 9K-006-0003s add 8 mL ethanol (96 ~ 100%) to **PCR 2** Washing Solution when first open.
   For 9K-006-0003 add 80 mL ethanol (96 ~ 100%) to **PCR 2** Washing Solution when first open.
   For 9K-006-0004 add 160 mL ethanol (96 ~ 100%) to **PCR 2** Washing Solution when first open.

4. All centrifuge steps are performed at full speed (14,000 rpm or 10,000 x g) in a microcentrifuge.

Brief Procedure



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General Protocol

1. Transfer 10 ~ 100 µL of PCR / enzymatic reaction (excluding oil) and add 5 volumes of **PCR 1** *Dilution Solution* to a 1.5 mL microcentrifuge tube (not provided) then mix well by vortexing.
   - For example, add 250 µL of **PCR 1** *Dilution Solution* to 50 µL of reaction volume.
   - The maximum volume of reaction mixture is 100 µL (excluding oil).
   - Make sure that ethanol (96 ~ 100 %) has been added into **PCR 1** *Dilution Solution* when opened first.

2. Place a **PCR Column** into a **Collection Tube** and transfer the sample mixture to the **PCR Column**.

3. Centrifuge for 1 min then discard the flow-through.

4. Add 750 µL of **PCR 2** Washing Solution (ethanol added) to **PCR Column**. Centrifuge for 1 min then discard the flow-through.
   - Make sure that ethanol (96 ~ 100 %) has been added into **PCR 2** *Washing Solution* when opened first.

5. Centrifuge for an additional 3 min to dry the column.
   - Important: This step will avoid the residual liquid to inhibit subsequent enzymatic reactions.

6. Place **PCR Column** into a **Elution Tube** (not provided).

7. Add 25 ~ 50 µL of **PCR 3** Elution Solution or ddH_2O (pH 7.0 ~ 8.5) to the membrane center of **PCR Column**. Stand **PCR Column** for 2 minutes.
   - Important: For effective elution, make sure that the elution solution is dispensed onto the membrane center and is absorbed completely.

8. Centrifuge for 1 min to elute the DNA.
   - The average eluate volume is 9 µL from 10 µL **PCR 3** *Elution Solution* volume.

Troubleshooting

Low or no recovery of DNA fragment

Applied more than 100 µL of PCR product

- If PCR product is more than 100 µL,separate it into multiple tubes.

Elution of DNA fragment is not efficient

- Make sure the pH of elution solution or ddH_2O is between 7.0~8.5, or use provided **PCR 3** *Elution Solution*.
- Make sure that the elution solution has been completely absorbed by the membrane before centrifuge.

The size of DNA fragment is larger than 5 Kb

- Preheat the elution solution to 60°C before use.

Poor performance in the downstream applications

Salt residue remains in eluted DNA.

- Wash the column twice with **PCR 2** *Washing Solution*.

Ethanol residue remains in eluted DNA

- Discard the flow-through after washing with **PCR 2** *Washing Solution* and centrifuge for an additional 3 min.

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Notes:

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