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***** KIT CONTENTS

50 RXN Kit (PPS0001S):

| ITEM | CATALOG # | 50 RXN |
|-------------------------------------|-----------|-------------|
| PCR Buffer | PPS0002 | 1 vial/25ml |
| Wash Buffer Concentrate | PPS0004 | 1 vial/6ml |
| NucleoPur [™] Spin Columns | PPS0006 | 50 columns |
| Collection Tubes | CT0050 | 50 tubes |

250 RXN Kit (PPS0001L):

| ITEM | CATALOG # | 250 RXN |
|-------------------------------------|-----------|--------------|
| PCR Buffer | PPS0003 | 1 vial/125ml |
| Wash Buffer Concentrate | PPS0005 | 1 vial/24ml |
| NucleoPur [™] Spin Columns | PPS0007 | 250 columns |
| Collection Tubes | CT0250 | 250 tubes |

PRECAUTIONS

THIS PRODUCT IS NOT INTENDED OR APPROVED FOR USE IN HUMANS OR VETERINARY ANIMALS. THE USE OF THIS PRODUCT IN A THERAPEUTIC SETTING IS HAZARDOUS AND MAY RESULT IN ILLNESS, INJURY AND/OR DEATH.

Please read these instructions carefully before using this System.

The reagents in this system have been formulated and tested to work exclusively with the BenevBio PCR Purification System. This system may not perform as described if any reagent or procedure is replaced and/or modified.

For research use only. Not for human or diagnostic use.

WARRANTY

BenevBio guarantees the performance of all products when used as directed for their intended purpose. Should any product fail to perform satisfactorily for any reason other than misuse, BenevBio's sole liability hereunder shall be limited to refund of the purchase price or, at the discretion of BenevBio, the replacement of all material that does not meet our specifications. BenevBio shall not be liable otherwise or for incidental or consequential damages including, but not limited to, the cost of handling. We reserve the right to change or modify any components to enhance the performance or design. The Buyer must give notice within thirty (30) days after receipt of material or shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

BenevBio CUSTOMER CARE INFORMATION

BenevBio 23263 Madero, Suite A Mission Viejo, California 92691 USA

Sales/Customer Care: 888-43-BENEV

Direct: 949-457-2222

Fax: 949-457-2221

Internet: www.benevbio.com

STORAGE AND STABILITY

The system will perform as specified if stored dry at room temperature ($20-25^{\circ}C$). Under these conditions the kit can be stored for up to 12 months without any decline in performance and/or quality.

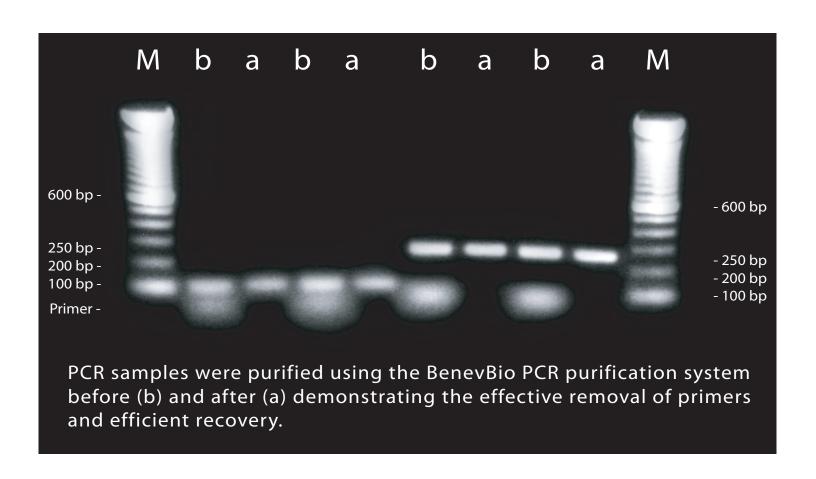
*** ADDITIONAL ITEMS REQUIRED**

- 1. Microcentrifuge capable of reaching 16,000 x g.
- 2. Adjustable pipettor.
- 3. Ethanol.
- 4. Microcentrifuge tubes.
- 5. A source of "UltraPure" water. Water used to elute samples must be deionized and free of trace organic contaminants.

Note: UltraPure water is available for purchase.

INTRODUCTION AND DESCRIPTION

The BenevBio PCR Purification System is designed to purify double-stranded DNA fragments from PCR reactions. The NucleoPur[™]Columns are specifically designed to purify and concentrate PCR fragments from 70bp to 10kb from primers, nucleotides, polymerases, and salts. Samples are efficiently recovered and concentrated in as little as 6µl H₂O making it ideal for downstream procedures including digestion and ligation reactions. (Scalable elution volume)



QUICK PROTOCOL (ABRIDGED)

- 1. Add two (2) volumes of PCR Buffer to every volume of PCR sample.
- Spin through NucleoPur[™]Column for 30 seconds. (10,000 x g)
- 3. Add 200µl Wash Buffer to NucleoPur Column[™] and spin for 30 seconds at 10,000 x g. Decant flow through and place column back into collection tube.
- 4. Repeat previous step and spin for 1 minute at 16,000 x g.
- 5. Place NucleoPur[™]Column in a new microcentrifuge tube.
- 6. Add 6-35µl H2O, wait 30 seconds, then spin for 1 minute at top speed.

Note: All centrifugation steps should be performed at room temperature.

PROTOCOL

NOTE: Be sure to add an appropriate volume of ethanol (95-100%) to the Wash Buffer Concentration before use. See bottle label for volume.

- 1. Add two (2) volumes of PCR Buffer to every one (1) volume of PCR reaction and mix. For example, add 100µl of PCR Buffer to 50µl PCR reaction.

 For PCR reactions <50µl, add 100µl PCR Buffer.
- 2. Pipet mixture into BenevBio NucleoPur[™] Column with collection tube attached.
- 3. Centrifuge for 30 seconds at 10,000 x g.
- 4. Add 200µl of Wash Buffer to the column and centrifuge for 30 seconds at 10,000 x g.

 Decant flow-through from collection tube and place the column back into the collection tube.
- 5. Repeat step 4 and centrifuge for 1 minute at 16,000 x g.
- Discard collection tube and place NucleoPur Column in new microcentrifuge tube.
- 7. Add 6-35µl nuclease-free water directly to the column matrix. Wait for 30 seconds then centrifuge at top speed for 1 minute.

TROUBLESHOOTING

Low DNA yield:

Incorrect ratio of PCR Buffer to PCR reaction sample.

Make certain that 2 volumes of PCR Buffer is added to every 1 volume of PCR sample. For samples under 50µl, add 100µl of PCR Buffer.

Ethanol was not added to wash buffer.

Ethanol must be added to the Wash Buffer Concentrate. Add an appropriate volume of ethanol and repeat procedure.

Incorrect elution buffer.

DNA will be efficiently eluted with a low salt buffer such as TE pH 8.0 or water.

Centrifugation too slow.

Centrifuge at 16,000 x g.

RELATED PRODUCTS

| ITEM | CATALOG # | SIZE |
|-------------------------|-----------|---------|
| Gel DNA Recovery System | GDR0001S | 50 RXN |
| Gel DNA Recovery System | GDR0001L | 250 RXN |

ORDERING INFORMATION

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Internet: www.benevbio.com



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