EcoSpin PCR Purification Kit

50 rxns

Cat No: EcoPP-50x

Shipping : Ship at ambient temperature.
Storage : Store the kit between 15°C and 25°C.

General Information

EcoSpin PCR Purification Kit is designed for effective and fast purification of polymerase chain reaction (PCR) products. Using this kit, primer dimers, free nucleotides in the reaction, salts, and Taq polymerase can be easily removed. This kit is also suitable for purification of nucleic acids from reactions including restriction digestion, alkaline phosphatase treatment, or kinase reactions.

Kit Contents

EcoSpin Binding Buffer	(25 ml)
EcoSpin Wash Buffer*	(8 ml concentrate)
EcoSpin Elution Buffer	(10 ml)
EcoSpin Columns	(50)
EcoSpin Collection Tubes	(50)

*Add 32 ml absolute ethanol

Additional Equipment & Reagents Required

96–100% ethanol
100% isopropanol
Tabletop microcentrifuge achieving >12,000 rpm
1.5 ml, sterile microcentrifuge tubes

Protocol for PCR Purification

Each isolation procedure is suitable for purification of 50 µl PCR product. If the volume of PCR sample is less than 50 µl, adjust total volume for each PCR tube to 50 µl. If the volume of PCR sample is larger than 50 µl, either increase the amount of Binding Buffer (Step 1) proportionally or divide the sample into 50 µl aliquots.

1. Add 250 µl *EcoSpin* Binding Buffer to each 50 µl PCR product.

2. Add 100 µl isopropanol to the mixture from step 1 and mix well.

Important: If the PCR mixture contains primer-dimers, purification might be performed without isopropanol, however, the yield of the target DNA fragment will be lower.

3. Insert an *EcoSpin* Column into a Collection Tube and transfer the sample from step 2 to the *EcoSpin* Column.

4. Centrifuge at maximum speed in a tabletop microcentrifuge 30 seconds at room temperature.

5. Discard the flowthrough and add 700 µl *EcoSpin* Wash Buffer to the *EcoSpin* Column.

6. Centrifuge at maximum speed in a tabletop microcentrifuge 30 seconds at room temperature.

7. Discard the flowthrough and centrifuge the empty *EcoSpin* Column at maximum speed for additional 1 minute to completely remove any residual wash buffer.

8. Transfer the *EcoSpin* Column to a clean 1.5 mL microcentrifuge tube (not included).

9. Add 30-50 µL of *EcoSpin* Elution Buffer to the center of the *EcoSpin* Column membrane and incubate the column at room temperature for 1 minute.

10. Centrifuge at maximum speed in a tabletop microcentrifuge 30 seconds at room temperature.

11. Discard the *EcoSpin* Column and store the purified DNA at -20°C.

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