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PCR DNA Extraction Kit

(Catalog# K1444-100; 100 tests; Storage at Multiple Temperatures)

I. Introduction:

PCR DNA Extraction Kit provides a simple, rapid and efficient method for the recovery and purification of DNA directly from PCR products (100 bp to 50 kb) with typical recovery efficiency up to 85%. The resulting product can be directly used for sequencing, restriction digestion, or PCR and other downstream experiments. In addition, the kit can be used to concentrate DNA.

The kit will work with a 96 well round bottom plates if a special magnetic frame is used. The kit can also be used with a variety of automatic nucleic acid extraction instruments and workstation.

II. Applications:

- Purification of DNA directly from PCR products (100 bp to 50 kb) with typical recovery efficiency up to 85%. Purified DNA can be used for sequencing, restriction digestion, PCR and other downstream experiments.

III. Sample Type:

- PCR products (100 bp to 50 kb)

IV. Kit Contents:

Component	K1444-100	Part Number
Magnetic Beads	5 ml	K1444-100-1
PCR DNA Binding Buffer*	9 ml	K1444-100-2
Elution Buffer	4 ml	K1444-100-3

**Add 6 mL of Isopropanol to PCR DNA Binding Buffer* (K1444-100-2) before use.*

V. User Supplied Reagents and Equipment:

- Magnetic racks compatible with vials used.
- 80% Ethanol in water.
- Isopropanol (ACS grade).

VI. Storage Conditions and Reagent Preparation:

Magnetic beads should be stored at 2-8°C but other kit reagents need to be stored at room temperature.
Reagent Preparation:
PCR DNA binding buffer: Dilute the buffer by adding 6 ml of Isopropanol before use.

VII. Assay Protocol:

1. Sample preparation: Add 3 volumes of PCR DNA binding solution directly to the PCR product. For example, add 120 µl of PCR DNA binding buffer to a 40 µl of PCR product.
2. Transfer all content to an Eppendorf tube, then add 50 µl of magnetic beads, mix well and incubate 3-5 min at RT. Put Eppendorf tube onto the magnet rack for 20 seconds. Remove supernatant by holding the magnet rack upside or by pipetting.
3. Wash the beads with 500 µl of 80% ethanol twice.
4. Dry the beads at 55°C for 8 min leaving the tube open. Do not over-dry the beads.
5. Elute the DNA from beads with 35 µl of elution buffer, incubate for at least 2 min and then vortex at full speed for 1 min. alternatively, incubation at 60°C for 2 min may improve the recovery for DNA larger than 3 kb.
6. Remove beads by using magnet rack, pipette DNA out and transfer to a clean tube.
7. Store purified DNA at -20°C for long-term storage.

VIII. Related Products:

- PCR Quick Screening Kit, InsertFinder™ ((# K903)
- PCR based Listeria monocytogenes Detection Kit (# K1405)
- PCRP-Legionella spp Detection Kit (# K1406)

FOR RESEARCH USE ONLY! Not to be used on humans.