For life science research only.
Not for use in diagnostic procedures.

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BehPrep PCR Clean Up Kit

Small-Scale Preparations of DNA Isolation

Components

	25 preps	50 preps
MB Buffer	15 ml	30 ml
Spin Columns	25 pieces	50 pieces
WB Buffer	40 ml	80 ml
EB Buffer	5 ml	10 ml

Stored at room temperature

Expiration: 1 year

Equipment & Reagents to be supplied by user----------

- Pipets and pipet tips
- 1.5 ml Microtube
- Microentrifuge

Precautions and Disclaimers----------

- This kit has been designed for research purposes only. It is not intended for human or diagnostic use.
- Avoid freeze/thaw cycles
- Mix buffers before adding

Description ----------

Opportunity is put forward by BehPrep PCR Clean Up kit for purposes of having at hand some efficiently fast procedure in order to purify DNA fragments from a variety of different samples such as enzyme and PCR solutions. The BehPrep PCR & DNA Cleanup Kit utilizes a bind/wash/elute workflow with minimal incubation and spin times. The columns provided with each kit ensure zero buffer retention and no carryover of contaminants, enabling elution in volumes as low as 6 µl. BehPrep's Buffers have been optimized, and do not require pH monitoring. Eluted DNA is ready for use in restriction digests, DNA sequencing, PCR, ligation, and other enzymatic manipulations

Specifications----------

- High recovery: recovery of DNA fragments is up to 90%
- High quality: purify DNA fragments have high quality and show reliable performance in PCR, qPCR, sequencing, and labeling, etc.
- Column Binding Capacity 10 µg
- Size of DNA Purified 100 – 15,000 bp

- Minimum Elution Volume 30 µL
- Time to Complete 10 Purifications 15 minutes

Protocol ----------

1. Sample Preparation and Binding to Column:
    - Determine the volume of sample and adjust to 100µl with sterile distilled water. For DNA samples exceeding 100µl, use directly. Add 5 volumes of MB Buffer to the DNA sample and mix thoroughly by vortexing or inverting tube several times.
    - Loading to column Transfer the sample into a column (max. 1ml) assembled in a clean collection tube (provided).Centrifuge at 10,000 x g for 1 min. Discard flow through.

*For DNA fragment sizes smaller than 300 bp or larger than 5 kbp:

Add 2 volumes of Isopropanol to the PCR sample. For example, if the volume of your DNA sample is 50 µl, add 100 µl Isopropanol.

2. Column washing:
    - Wash the column with 700µl WB Buffer and centrifuge at 10,000 x g for 1 min. Discard flow-through.
    - Recommended: Repeat previous washing step to minimize chaotropic salt carry-over and improve A260/A230 values.
    - Column drying Centrifuge the column at 10,000 x g for 1 min to remove residual ethanol. This step has to be carried out to remove all traces of ethanol as residual ethanol can affect the quality of DNA and may subsequently inhibit enzymatic reactions.
3. DNA Elution:

Place the column into a clean microcentrifuge tube. Add 30 - 100µl of EB Buffer onto column membrane and stand for 2 min. For DNA fragments larger than 8kb, use preheated elution buffer at 65°C - 70°C for better elution efficiency. Spin at 10,000 x g for 1 min to elute DNA. Store DNA at 4°C or -20°C.