



BehPrep PCR Cleanup Kit

Cat. No: BPPC25

*** reactions

Store at room temperature

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

Contents

	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

Storage and stability

Spin columns of the kit are packed in closed bags and show full performance in this state at room temperature (18-25°C) until expiration date. All solutions are clear and should not be used when precipitates have formed. Warm the solutions at +15 to +25°C or in a 37°C water bath until the precipitates have dissolved. The buffers can show a slight yellow color. This will have no impact on the function of the buffer.

Spin columns are packed in closed bags, please take care that columns should be used after once opened. Please take care that columns, once opened, should be used instantly. Close bottles immediately after use.

Kit 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 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

Important notes: please read before using

- ✓ This kit has been designed for research purposes only. It is not intended for human or diagnostic use.
- ✓ Wear gloves in all steps of procure.
- ✓ Avoid freeze/thaw cycles
- ✓ Equilibrate samples to room temperature.
- ✓ Equilibrate all Buffer to room temperature before use.
- ✓ Homogenize all buffer before use.

Reagents and equipment required (but not supplied)

- Pipets and pipet tips (RNA and DNA free)
- 1.5 ml Microtube (RNA and DNA free)
- Vortex
- Microcentrifuge

Warnings and precautions

- Wear gloves in all steps of procure.
- Avoid contact any kit reagents with skin & eyes.
- Follow biohazard safety procedure.

Samples

This kit is for use in extracting DNA from a variety of different samples such as enzyme and PCR solutions.

Protocol

Sample preparation

1. Sample Preparation and Binding to Column:

- 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. **
- 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 the 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.

** Recommended: Repeat previous washing step to minimize chaotropic salt carry-over and improve A260/A230 values.

Storage of obtain sample

The obtain DNA samples can be directly use to applications such as PCR, ligation and transformation, hybridization, in vitro transcription and etc.

Obtain sample can be store at -20°C.

Trouble shooting

observation	Possible cause	suggestion
Low purification	High 260/230 OD ratio	Repeat washing step

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

Kit limitation

BehPrep kit has the capacity of efficient purification of DA ranging from 70bp to 20kbp and the recovery efficiency is maximally 95%.

Quality control

All the component and lot numbers (Lot NO.) of each kit in the quality control unit of Vista Biotechnology Behgene have been evaluated according to predetermined criteria to ensure the accuracy of the product.



Iran, Fars, shiraz, Ab-Barik Industial Estate, Mina St., BehGene Biotechnology Co.



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