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

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BehMag PCR Clean Up Kit

Small-Scale Preparations of DNA Isolation based on Magnetic beads

Components

	25 preps	50 preps
MB Buffer	9ml	18ml
Magnetic Beads	1.5.ml	3 ml
WB Buffer	15ml	30ml
EB Buffer	5ml	10ml

Stored at room temperature

Expiration: 1 year

Companion Device----------

Magnetic separation rack

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

- Pipets and pipet tips
- 1.5 ml Microtube
- Vortex
- Dry Heat Block/ Water Bath

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 and centrifugation which could damage the beads.
- Be sure to vortex well magnetic beads before using
- Vortex samples 10 seconds before adding

Description ----------

Opportunity is put forward by BehMag 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. Using specific buffers, the kit takes advantage of binding qualities of DNA to a specific magnetic beads surface. It is in this way that we arrive at extremely pure DNA for application in a wide spectrum of ordinary molecular biology usages. Purification procedure is significantly simplified by using magnetic particles. It is possible to completely collect DNA containing aqueous phase without risking to capture some part of

sorbent pellet this is the result of the sorbent pellet being safely held on a tube wall by a magnetic field of the magnetic rack. No centrifugation is required to separate a sorbent and form a pellet: this means much faster washing cycles.

Specifications----------

- Sample: up to 100 µl of PCR products
- High yield: 30µl of magnetic beads can bind 10µg DNA
- High recovery: recovery of DNA fragments is up to 80%
- High quality: purify DNA fragments have high quality and show reliable performance in PCR, qPCR, sequencing, and labeling, etc.
- Automation: no liquid-liquid mixing and separation process; therefore, the whole procedure can be easily automated

Protocol ----------

1. Transfer 20-40 µl PCR product into the 1.5 ml microtube

2. Add 100 µl MB Buffer to the microtube

3. Add 40 µl Magnetic Beads to the microtube then vortex it for 10 seconds.

4. Place the tube in the magnetic rack and discard the cleared supernatant.

5. Add 200 µl MW Buffer and shake it gently for 30 seconds. Then Place the tube in the magnetic rack and discard the cleared supernatant.

6. Repeat step 5.

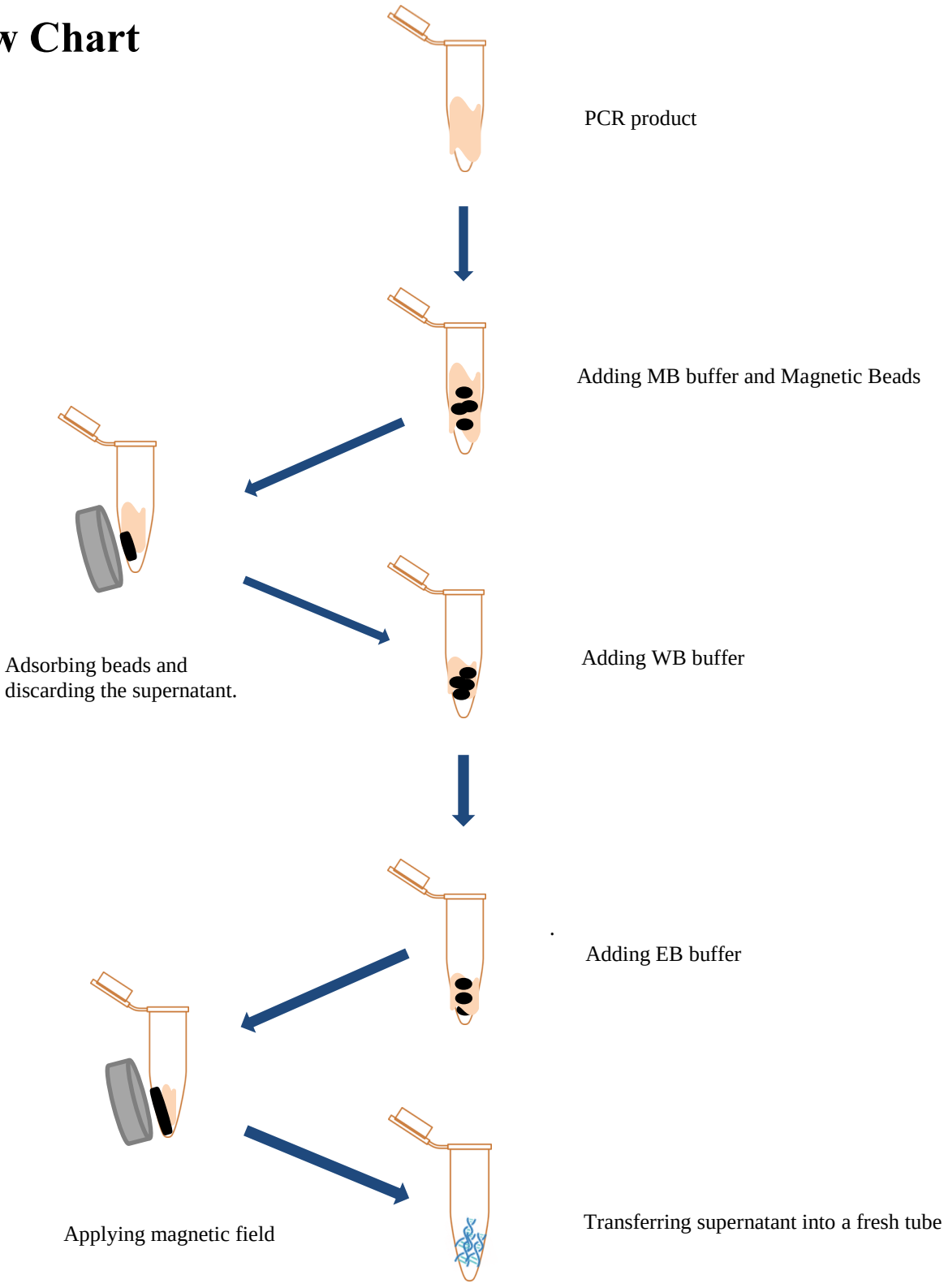
7. Open the microtube's door at room temperature for 5 minutes to dry magnetic Beads.

8. Add 30 µl Elution Buffer and Incubate the tube at 55°C for 15 min

NOTE: During incubation, vortex the tube occasionally to ensure Magnetic Beads remain in suspension.

9. Place the tube in the magnetic rack and collect the cleared supernatant containing DNA into a fresh tube and store it in -20°C.

Flow Chart


PCR product
Adding MB buffer and Magnetic Beads
Adsorbing beads and
discarding the supernatant.
Adding WB buffer
Adding EB buffer
Applying magnetic field
Transferring supernatant into a fresh tube