

AccuPrep® PCR/Gel Purification Kit (K-3037G)**I Before You Begin**

- 1) Add indicated volume of isopropanol (not provided) to PB Buffer before use (see bottle label).
- 2) We recommend to use $\leq 1\%$ agarose gel for gel purification.
- 3) Pre-heat EA Buffer at 60°C before use. This process is essential for maximal recovery in filter-based extraction.
- 4) The protective seal in BSTB Solution should be completely removed. BSTB Solution may be discolored, but it does not affect nucleic acid extraction.
- 5) Add adequate amount of **absolute ethanol (not provided)** to **WB2 Buffer** and **BSTB Solution**, respectively (see bottle label).

II Fragment DNA purification from PCR product

- 1) Add **5 volumes** of **PB Buffer** to PCR product (if the PCR product is 20 μ l, add 100 μ l of PB Buffer).
- 2) Add absolute isopropanol (not provided) by the same volume as PCR product and mix immediately by using pipette or inverting.
- 3) Add **100 μ l** of **BSTB Solution** to the Binding column tube (fitted in a collection tube) and centrifuge for **30 sec** at **13,000 rpm**.
- 4) Discard the solution from the collection tube and reuse the collection tube.
- 5) Transfer the mixture from step 2 to a Binding column in a collection tube.
- 6) Close the lid and centrifuge at **14,000 rpm** for **1 min**.
- 7) Discard the flow-through and re-assemble the Binding column with the collection tube.
- 8) Add **500 μ l** of **WB2 Buffer** without wetting the rim, close the tube, and centrifuge at **14,000 rpm** for **1 min**. Discard the flow-through and re-assemble the Binding column with the collection tube.
- 9) **Repeat step 8.**
- 10) Centrifuge once more at **14,000 rpm** for **1 min** to completely remove residual ethanol, and make sure that there is no droplet clinging to the bottom of the Binding column.
- 11) Transfer the Binding column tube to a new 1.5 ml tube for elution, add **30 μ l** of **EA Buffer** onto the Binding column tube, and wait for at least 1 min at RT (15-25°C).
- 12) Centrifuge at **14,000 rpm** for **1 min** to elute.

AccuPrep® PCR/Gel Purification Kit (K-3037G)**III Fragment DNA purification from Agarose gel**

- 1) Visualize the band in agarose gel stained with any nucleic acid staining chemicals and cut the gel around the target DNA band using a scalpel blade.
- 2) The maximum amount of gel slice per each sample is **< 400 mg and add 3 times the volume of FB Buffer** according to the weight of the gel slice (If the weight of gel slice is 200 mg, add 600 µl of FB Buffer).
- 3) Incubate at **50°C for 10 min** and mix by inverting the tube every 2-3 min during the incubation. After dissolution of the gel slice, check if the color of the mixture is yellow which indicates pH ≤ 7.5. If the color of the mixture is orange or red, add 10 µl of 3M sodium acetate (not provided, pH 5.0) and mix.
- 4) Add **absolute isopropanol (not provided)** by the same volume as dissolved gel mixture and mix immediately by using pipette or inverting.
- 5) Add **100 µl of BSTB Solution** to the Binding column tube (fitted in a collection tube) and centrifuge for **30 sec at 13,000 rpm**.
- 6) Discard the solution from the collection tube and reuse the collection tube.
- 7) Transfer the mixture from step 4 to a Binding column in a collection tube.
- 8) Close the lid and centrifuge at **14,000 rpm for 1 min**.
- 9) Discard the flow-through and re-assemble the Binding column with the collection tube.
- 10) Add **500 µl of WB2 Buffer** without wetting the rim, close the tube, and centrifuge at **14,000 rpm for 1 min**. Discard the flow-through and re-assemble the Binding column with the collection tube.
- 11) **Repeat step 10.**
- 12) Centrifuge once more at **14,000 rpm for 1 min** to completely remove residual ethanol, and make sure that there is no droplet clinging to the bottom of the Binding column.
- 13) Transfer the Binding column tube to a new 1.5 ml tube for elution, add **30 µl of EA Buffer** onto the Binding column tube, and wait for at least 1 min at RT (15-25°C).
- 14) Centrifuge at **14,000 rpm for 1 min** to elute.

※ For more information, please visit www.bioneer.com and refer to the User Guide of this kit.