

AccuPrep® PCR/Gel Purification Kit (K-3037, K-3038)**I Before You Begin**

- 1) Please prepare absolute isopropanol (not provided) before purification.
- 2) We recommend to use $\leq 1\%$ concentration of agarose gel for gel purification.
- 3) Did you add adequate amount of isopropanol to PB Buffer?
- 4) The protective seal in BST Solution should be completely removed. BST Solution may be discolored, but it does not affect nucleic acid extraction.

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 **1 PCR product volume** of absolute isopropanol and mix immediately by using pipette or inverting.
- 3) Add **100 μ l** of BST Solution to the Binding column tube (fit 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 to a Binding column in a 2 ml 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 W2 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 check 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-3037, K-3038)**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 DNA band of interest using a scalpel blade.
- 2) The maximum amount of gel slice per each sample is **~400 mg**, Add **3 volumes** of **FB Buffer** to weight of the gel slice (If the weight of gel slice is 200 mg, add 600 μ l 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 the color of the mixture is yellow that indicates $\text{pH} \leq 7.5$. If the color of the mixture is orange or red, add 10 μ l of 3M sodium acetate (pH 5.0) and mix.
- 4) Add **1 gel volume** of **absolute isopropanol** and mix immediately by using pipette or inverting.
- 5) Add **100 μ l** of **BST Solution** to the Binding column tube (fit 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 to a Binding column in a 2 ml 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 μ l** of **W2 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 check 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 μ l** 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's Guide of this kit.