CYDR02-PCR Purification Kit

Cat#: **CYDR02**

❖ Kit Contents and Storage

Kit Contents	Storage	50 Preps (CYDR0201)	100 Preps (CYDR0202)
Buffer PB	RT	30 ml	60 ml
Buffer WB	RT	15 ml Add indicated ethanol before first use	25 ml
Elution Buffer	RT	15 ml	20 ml
DNA Binding Columns	RT	50	100

All reagents, when stored at the indicated temperatures, are stable for 12 months.

❖ Description

In the presence of the chaotropic salt guanidine thiocyanate, DNA amplified by PCR binds selectively to silica membrane pre-packed in the spin columns. Bound DNA is purified in a series of rapid wash-and-spin steps to remove contaminating primers, nucleotides, and salts, and then eluted using a low salt solution. This simple method eliminates the need for organic solvent extractions and DNA precipitation, allowing for rapid purification of many samples simultaneously.

❖ Features

1. For purification of up to 10 µg PCR products, 100 bp to 10 kb.
2. Up to 95% recovery of ready-to-use DNA.

Cleanup of DNA up to 10 kb in three easy steps.

❖ Procedure

Note:

⇨ **Before the first use, add the indicated amount of ethanol into Buffer WB bottles, mix well, and mark the bottle with a check.**

1. Add 5 volumes of Buffer PB to 1 volume of the PCR sample and mix. It is not necessary to remove mineral oil or kerosene.
   For example, add 500 µl of Buffer PB to 100 µl PCR sample (not including oil).
2. Pipet the mixture into the spin column placed in a 2 ml collection tube (provided). Centrifuge at 13,000 rpm for 30-60 s. Discard flow-through and place the column back in the same tube.
3. Add 600 µl Buffer WB, and centrifuge at 12,000 rpm for 30 s. Discard the

flow-through.

4. Repeat Step 3 with another 600 µl Buffer WB.
5. Place the spin column back into the same collection tube. Centrifuge the empty column at 13,000 rpm for 2 min to completely remove ethanol from the column.

   Note: It is important to dry the membrane of the spin column, since residual ethanol may interfere with subsequent reactions. This centrifugation step ensures that no residual ethanol will be carried over during the following elution.
6. Place the column in a clean 1.5 ml microcentrifuge tube. Add 50 µl of Elution Buffer (Optional: pre-warm the water to 70–90°C will increase the DNA yield) to the center of the column membrane. Incubate at room temperature for 2-3 min, and centrifuge at 12,000 rpm for 1 min to elute the DNA.

   Note: Use smaller volume (minimum 30µl) of Elution Buffer will obtain higher concentration.

   Optional: Put eluate back to the spin column to repeat elution once. This increases concentration of DNA about 10-15%.

This product is furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.