



# **PRODUCT INFORMATION**

## **EZ-10 96-WELL SPIN COLUMN PLATE DNA CLEANUP MINIPREPS KIT**

<b>Components</b>	<b>BS369, 5 Plates</b>	<b>BS370, 10 Plates</b>
Cleanup Solution	150ml	300ml
Wash Solution	2x60ml	4x60ml
Elution Buffer	30ml	60ml
EZ-10 96-well-plate	5	10
Deep Well Collection Plate	10	20
96 storage plate	5	10
Sealing film	20	40
Protocol	1	1

- (a) Before use, add 240 ml of 100% of ethanol to 60 ml Wash Solution. For other volumes of wash solution, simply add enough ethanol to make a 4:1 ratio (volume of added ethanol: volume of Wash Solution = 4:1).
- (b) Elution Buffer is 2.0 mM Tris-HCl pH 8.0~8.5. Although TE buffer pH 8.0 or water can be used, yield is generally 20% lower.

Storage: The kit is stable for 12 months at room temperature. For longer storage, keep all contents cold.

### **Principle**

This EZ-10 96-well spin column plate DNA Cleanup kit provides a simple, efficient, and automated high throughput method for purification of DNA fragments from variable enzymatic reactions such as cDNA synthesis, ligation, restriction digestions, tailing, PCR\*, alkaline phosphatase, nick translation, due terminators products from PCR\*\* reaction mixture. It is also an ideal tool to desalt the solution of DNA as well as to remove residual organic solvents or unincorporated nucleotides or primers (<40-mer) from reaction mixture. The kit utilizes a technology which adsorbs selectively up to 10ug DNA fragments in each column in the presence of specialized binding buffers. Nucleotides, enzymes, mineral oil and other impurities do not bind to the columns in the plate. DNA fragments can be eluted readily with elution buffer.

### **Application:**

- Recovery of PCR\*\* products from PCR\* reaction mixture.
- DNA Cleanup from the enzymatic reactions.
- Removal of nucleotides and primers (<40mer).

### **Features:**

- Rapid and economical. Entire procedure takes about 60 minutes to complete 96 samples purification..
- High yields (60-80%). It is suitable to recover 100 bp-40 kb DNA fragments.
- Efficient removal of contaminants. Purified DNA can be used in any downstream applications such as sequencing, labeling, restriction enzymatic digestions, ligations or transformations.
- No phenol / chloroform extraction or ethanol precipitation



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### **Procedure for Purification of PCR\* Products:**

1. Transfer DNA mixtures to a 96-well Deep Well Collection Plate and add 3 volumes of Binding Buffer I, seal the Deep Well Collection Plate by sealing film, mix by inverting 5 times.
2. Place a EZ-10 96-well plate into a new Deep Well Collection Plate. Transfer the above mixture solutions to the 96-Well Plate, and let stand at room temperature for 2 minutes. Centrifuge at 4,000 rpm for 5 minutes with a rotor for microtiter plates.
3. Discard flow-through. Add 500 ul Wash Solution to the 96-Well Plate and spin at 6,000rpm for 5 minutes. Discard flow-through and place 96-Well Plate back to the same Deep Well Collection Plate.
4. Add 500 ul Wash Solution to the 96-Well Plate, spin at 6,000 rpm for 5 minutes. Discard flow-through and spin once more for 15 minutes to remove residue of Wash Solution.
5. Place EZ-10 96-well plate to a 96-well storage plate. Add 30-50µl Elution Buffer onto the center part of the column, incubate at 50°C for 2 minutes. Centrifuge at 8,000 rpm for 5 minutes.
6. DNA products are ready for use or kept at – 20°C.

\* The Polymerase Chain Reaction (PCR\*) is covered by patents owned by Hoffman-La Roche Inc.