



**SpeedDNA PCR Purification Kit  
(SDPCRpur)**

Catalog #MB6948-100  
100 Preps  
or  
Catalog #MB6948-250  
250 Preps

**Description**

ScienCell's SpeedDNA PCR Purification Kit provides a rapid and reliable way to purify DNA fragment from PCR reaction. The SDPCRpur combines an optimized buffer system with convenient spin column-based purification. It facilitates fast and efficient DNA extraction, with recovery rates up to 95%. The obtained concentrated DNA is suitable for downstream applications such as PCR, restriction digestion, *in situ* hybridization, and cloning.

**Kit Components**

*Catalog #MB6938-100*

<b>Cat #</b>	<b>Item</b>	<b>Quantity</b>
MB6948a-1	Buffer PD	20 mL
MB6948b	Buffer DW	20 mL
MB6948c-1	Buffer DE	8 mL
MB6948d	DNA spin columns (in wash tubes)	2 x 50 pieces

*Catalog #MB6938-250*

<b>Cat #</b>	<b>Item</b>	<b>Quantity</b>
MB6948a-2	Buffer PD	50 mL
MB6948b	Buffer DW	20 mL x 2
MB6948c-2	Buffer DE	15 mL
MB6948d	DNA spin columns (in wash tubes)	5 x 50 pieces

**Materials Required (Not Provided)**

- 3 M Sodium acetate buffer, pH 5.2
- Isopropanol (100%)
- Ethanol (96-100%)
- 1.7 mL (or 1.5 mL) microcentrifuge tubes (DNase/RNase free)
- Microcentrifuge with rotor for 1.7 mL (or 1.5 mL) tubes

## Quality Control

The yield of purified DNA fragment from a PCR reaction using SDPCR Pur was analyzed by spectrophotometry.

## Product Use

SDPCR Pur is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.

## Shipping and Storage

Ambient temperature.

## Reagent Preparation

Buffer DW (20 mL, Cat #MB6908b) is provided as a concentrate. Prior to first time use, add **100 mL** ethanol (96-100%) to make complete buffer DW and mix well. Keep container tightly closed and store at room temperature.

## Procedures

**Note:** Avoid touching the DNA spin column membranes with the tip-end of pipettes.

1. Transfer PCR reaction mix to a 1.7 mL centrifuge tube.
2. Add a 2:1 ratio of Buffer PD (Cat #MB6948a) to PCR reaction mix. For example, add 100  $\mu$ L of Buffer PD to 50  $\mu$ L PCR reaction mix.
3. **Optional:** If the color of the mixture turns to red or violet, add 10  $\mu$ L of 3 M sodium acetate buffer, pH 5.2 to the solution and mix well.
4. **Optional:** If the size of DNA fragment is < 400 bp, add 1.5 volume of isopropanol to the mixture and mix well. For example, add 75  $\mu$ L of isopropanol to the mixture with 50  $\mu$ L PCR reaction mix combined with 100  $\mu$ L of Buffer PD.
5. Transfer the mixture (up to 750  $\mu$ L each time) to the DNA spin column in a wash tube (Cat #MB6948d). Close the cap and centrifuge at  $\geq 8,000 \times g$  for 1 minute. Discard the filtrate and put the spin column back to the same wash tube. Repeat this step until all of the mixture has been applied to the spin column.
6. Add 750  $\mu$ L of Buffer DW (Cat #MB6948b) to the DNA spin column. Close the cap and centrifuge at  $\geq 8,000 \times g$  for 1 minute. Discard the filtrate and put the spin column back to the same wash tube.

7. Centrifuge at  $\geq 15000 \times g$  for 2 minutes. Discard the wash tube containing the filtrate and transfer the spin column into a new 1.7 mL microcentrifuge tube.
8. Add 50  $\mu\text{L}$  Buffer DE (Cat #MB6948c) directly to the spin column membrane. Incubate at room temperature for 1 minute. Centrifuge for 1 minute at  $\geq 8,000 \times g$  to elute DNA.
9. The eluted DNA can be used immediately or stored at  $-20^{\circ}\text{C}$ .