Rev. 1

ScienCell™
Research Laboratories

SpeeDNA PCR Purification Kit
(SDPCRPur)
Catalog #MB6948-100
100 Preps
or
Catalog #MB6948-250
250 Preps

Description

ScienCell's SpeeDNA 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

Cat #	Item	Quantity
MB6948a-1	Buffer PD	20 mL
MB6948b	Buffer DW	20 mL
MB6948c-1	Buffer DE	8 mL
MB6948d	DNA spin columns (in wash tubes)	100 pieces
MB6948e	Wash tubes	100 pieces

Catalog #MB6938-250

Cat #	Item	Quantity
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)	250 pieces
MB6948e	Wash tubes	250 pieces

Materials Required (Not Provided)

3 M Sodium acetate buffer, pH 5.2
Isopropanol (100%)
Ethanol (96-100%)

Rev. 1
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 SDPCRPur was analyzed by spectrophotometry.

Product Use
SDPCRPur 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 µL of Buffer PD to 50 µL PCR reaction mix.

3. ***Optional:*** If the color of the mixture turns to red or violet, add 10 µL 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 µL of isopropanol to the mixture with 50 µL PCR reaction mix combined with 100 uL of Buffer PD.

5. Place DNA spin column (Cat #MB6948d) into a wash tube (Cat #6948e). Transfer the mixture (up to 750 µL each time) to the DNA spin column in a wash tube (Cat #MB6948d). Close the cap and centrifuge at ≥8,000 x *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.

Rev. 1

6. Add 750 µL of Buffer DW (Cat #MB6948b) to the DNA spin column. Close the cap and centrifuge at ≥8,000 x *g* for 1 minute. Discard the filtrate and put the spin column back to the same wash tube.

7. Centrifuge at ≥ 15000 x *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 µL Buffer DE (Cat #MB6948c) directly to the spin column membrane. Incubate at room temperature for 1 minute. Centrifuge for 1 minute at ≥8,000 x *g* to elute DNA.

9. The eluted DNA can be used immediately or stored at -20°C.