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Column-Pure PCR Clean-Up Kit

Store at Room Temperature

Cat. No.	Product Name	Quantity
D509	Column-Pure PCR Clean-Up Kit	100 Preparations

Product Description

Column-Pure PCR Clean-Up Kit is designed for purification of PCR products ranging from 100 bp to 10 kb. Salt, primers, enzymes, dNTPs and other impurities will be removed from the PCR reaction products. The incorporation of a new technology also allows the kit to be used to concentrate DNA by eluting samples in small volumes.

Kit Contents

Component	Size
Buffer B3*	2 x 24 ml
Wash Solution*	40 ml
Spin Column	100 pieces
Elution Buffer	10 ml
*Isopropanol/Ethanol to be supplied by the end-user	100 Preparations

Caution

Buffer B3 contains chaotropic salt. Please use proper safety precautions and always wear gloves when handling this reagent. Avoid contact with skin, eyes or clothing. In case of accidental spill or contact, wash thoroughly with water, seek medical attention if necessary.

Storage

Store all buffers at room temperature.

Protocol

Note: Before use, add 6 ml of isopropanol to the each of the 24 ml Buffer B3 to bring it to a final volume of 30 ml, dissolve the precipitate by warming the solution at 37°C if necessary and then cool down to room temperature before use.; add 160 ml of ethanol to the Wash Solution to make the final 1X Wash Solution.

1. Mix 5 volumes of the Buffer B3 (isopropanol added) with 1 volume of PCR reaction.
2. Load up to 700 µl of the mixture to the Spin Column, and centrifuge for 2 minutes at 10,000 rpm in a microcentrifuge.
3. Discard the flow-through. If sample volume is larger than 700 µl, add more sample to the column and repeat the spin. Otherwise, go to step 4.
4. Wash the column by adding 750 µl of 1X Wash Solution and centrifuging at 10,000 rpmfor 2 minutes, then discard the flow-through.
5. Repeat washing procedure #4 once. Discard the flow-through and centrifuge the column at 10,000 rpm for 1 more additional minute to remove any residual Wash Solution.
6. Transfer Spin Column to a new 1.5 ml microcentrifuge tube.
7. Add 30-50 µl of Elution Buffer to the center of the column.
8. Incubate the column at room temperature for 2 minutes and then centrifuge at 10,000 rpm for 1 minute to elute the DNA from the column.
9. Store purified DNA at -20°C.

Note: It is important to add the Elution Buffer into the center/membrane of the column. To increase yield, re-elute the column one more time by reloading the eluant back to the column to repeat the elution (Step #8). Incubating the column with the Elution Buffer at higher temperature (37°C to 50°C) may slightly increase the yield especially for large (>10,000 bp) DNA plasmids. Prewarming the Elution Buffer at 55°C to 80°C may also slightly increase elution efficiency.