

EZ-Pure™ PCR Purification Kit Ver.2

Instruction Manual

Cat.# EP201-50N

Cat.# EP201-200N

store at room temperature

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Kit Contents

Components \ Cat.#	EP201-50N (50 Preps)	EP201-200N (200 Preps)
Buffer PB	30 ml	120 ml
Buffer NW	12 ml	25 ml X 2 ea
Buffer EB	15 ml	30 ml

Introduction

EZ-Pure™ PCR Purification Kit Ver.2 enables the rapid purification of amplified DNA products from PCR mixes. This kit is able to effectively remove PCR by-products including primers, dimers, enzymes, unincorporated nucleotides and mineral oil from the desired PCR product. The purified PCR products are fully compatible with restriction enzyme digestion, ligation into vectors, labeling and sequencing. This kit can also be used as an alternative to organic extraction and ethanol precipitation to clean up various enzymatic reactions.

Storage

EZ-Pure™ PCR Purification Kit Ver.2 spin columns and all buffers and reagents can be stored at room temperature (15–25 °C). All components are stable for 1 year.

Product Qualification

EZ-Pure™ PCR Purification Kit Ver.2 is manufactured in strictly clean condition, and its degree of cleanness is monitored periodically. For consistency of product, bacterial cell transformation, mammalian cell transfection, DNA sequencing, restriction enzyme digestion, cloning, and PCR as quality control are carried out from lot to lot thoroughly, and only the qualified is approved.

Specifications

Format	Spin type
Standard sample size	100 µl of PCR reactions.
Binding capacity	Column binding capacity: approx. 10 µg pDNA
Minimum elution volume	~40 µl
Preparation time	<15 min

Protocol

Before experiment.

- Add ethanol (100%) to Buffer NW before use (see bottle label for volume).
- All centrifuge steps are at 13,000 rpm (~17,900 X g) in a conventional tabletop microcentrifuge.

This protocol is designed to purify single- or double-stranded DNA fragments from PCR and other Enzymatic reactions. For cleanup of other enzymatic reactions. Fragments ranging from 100 bp to 10 kb are purified from primers, nucleotides, polymerases, and salts using spin columns in a microcentrifuge

1. Add 5 volumes of Buffer PB to 1 volume of the PCR reaction.

If the PCR product is 50 µl, add 250 µl of PB Buffer. Mix them completely. It is not necessary to remove mineral oil.

2. Transfer the mixture to the Binding column.

3. Centrifuge for 1 min. Discard the pass-through and reinsert the Binding column back into the same tube.

4. Add 500 µl of Buffer NW to the Binding column tube and centrifuge for 1 min to wash.

This step removes salts and soluble impurities in the Binding column tube. The loss of DNA in this step is negligible.

5. Discard flow-through and place the Binding column tube in the same tube again.

6. Repeat the washing procedure using 200 µl of Buffer NW. Discard the flow-through and place the Binding column tube in the same tube again.

7. Centrifuge the Binding column tube for an additional 2 min for drying.

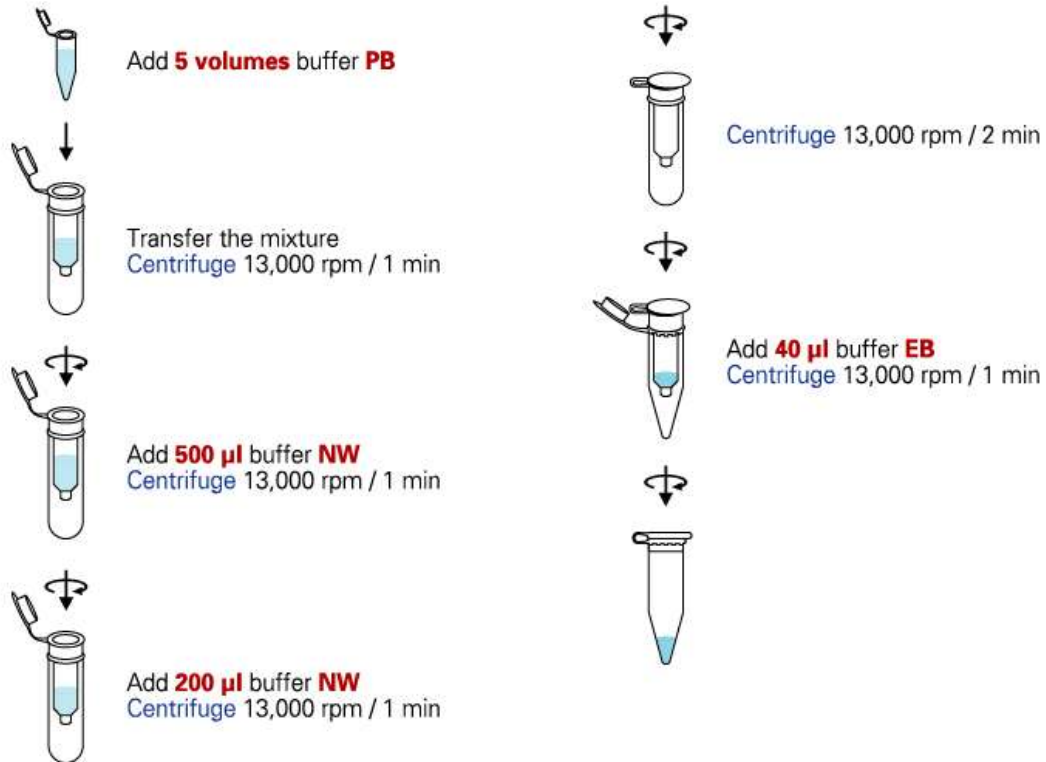
Remove NW Buffer completely, and make sure there is no droplet hanging from the tip of the column, Residual WB Buffer may interrupt the subsequent enzymatic reactions.

8. Place the Binding column tube in a clean 1.5 ml tube.

9. Add 40 μ l of Buffer EB to the center of the Binding column filter, and let the column stand for 1 min and centrifuge for 1min.

To obtain more concentrated DNA solution, apply 30 μ l of elution buffer, but the volume 30 μ l will lower than 30 μ l will decrease the yield significantly. Up to 200 μ l of elution buffer can be applied to Binding column, and it will reduce the concentration of DNA. For larger fragment (>5kb,) use pre-warmed (60°C) elution buffer to efficiency.

Quick guide EZ-Pure™ PCR Purification kit, Ver.2



Ordering Information

Products	Cat.#	Price
EZ-Pure™ Plasmid Prep Kit Ver.2 (50P)	EP101-50N	₩60,000
EZ-Pure™ Plasmid Prep Kit Ver.2 (200P)	EP101-200N	₩130,000
EZ-Pure™ PCR Purification Kit Ver.2 (50P)	EP201-50N	₩65,000
EZ-Pure™ PCR Purification Kit Ver.2 (200P)	EP201-200N	₩165,000
EZ-Pure™ Gel Extraction Kit Ver.2 (50P)	EP202-50N	₩65,000
EZ-Pure™ Gel Extraction Kit Ver.2 (200P)	EP202-200N	₩165,000
EZ-Pure™ PCR/Gel DUO Kit Ver.2 (50P)	EP203-50N	₩80,000
EZ-Pure™ PCR/Gel DUO Kit Ver.2 (200P)	EP203-200N	₩200,000



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