Manual

LAROVA

PCR Purification Kit

DNA Purification by silica-gel membrane adsorption

Cat.-No.	Amount
PP-201S	50 preparations
PP-201L	250 preparations

For *in vitro* use only
Quality guaranteed for 12 months
Store at room temperature

Kit contents

Binding Buffer

Washing Buffer (before use add 96-99% Ethanol)

Elution Buffer

Spin Columns

2 ml Collection Tubes

To be provided by you

96-99% Ethanol

Isopropanol (optional)

1.5 ml microtubes

Description

PCR Purification Kit is designed for the work-up of PCR reactions (removal of nucleotides, primers, proteins, salts, agarose, ethidium bromide, and other impurities). The preparation is based on a silica-membrane technology for binding DNA in high-salt and elution in low-salt buffer. The kit provides a simple and efficient way to purify linear or circular DNA in the range from 100 bp to 10 kbp and is optimized for working with DNA amounts from 50 to 500 ng. It requires no organic extractions or precipitation and guarantees high and stable recovery rates.

Preparation procedure

The DNA purification follows a simple binding, washing, and eluting procedure. Before start, add 96-99% Ethanol (not included in the kit) to the Washing Buffer. The additional use of Isopropanol (not included in the kit) is recommended for fragments smaller than 500 bp or larger than 5 kbp. The optional primary washing step minimizes the salt content of the purification product.

1. ***Sample Preparation***
- Add 5 volumes of Binding Buffer to 1 volume of DNA sample and mix well. For example, if the volume of your DNA sample is 50 µl, add 250 µl Binding Buffer.
- For DNA fragment sizes smaller than 500 bp or larger than 5 kbp add 3 volumes Binding Buffer and 2 volumes of Isopropanol to the PCR sample. For example, if the volume of your DNA sample is 50 µl, add 150 µl Binding Buffer and 100 µl Isopropanol.

2. ***Column Loading***
- Place a spin column into a 2 ml collection tube
- Apply the sample mixture from step 1 into the spin column
- Centrifuge at 10,000 g for 30-60 sec in a micro-centrifuge
- Discard the flow-through

3. ***Primary Washing***
- Apply 600 µl of Washing Buffer to the spin column
- Centrifuge at 10,000 g for 30 sec and discard the flow-through

4. ***Column Washing***
- Add 400 µl of Washing Buffer to the spin column
- Centrifuge at 10,000 g for 2 min and discard collection tube

5. ***Elution***
- Place the spin column into a clean 1.5 ml microtube (not provided in the kit)
- Add 30 to 50 µl Elution Buffer or distilled water to the center of the column membrane and incubate for 1 min at room temperature
- Centrifuge at 10,000 g for 30 sec to elute DNA