PCR Purification Kit
DNA Purification by silica-gel membrane adsorption

DNA Cleanup

<table>
<thead>
<tr>
<th>Cat.-No.</th>
<th>Amount</th>
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<tbody>
<tr>
<td>PP-201S</td>
<td>50 preparations</td>
</tr>
<tr>
<td>PP-201L</td>
<td>250 preparations</td>
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</tbody>
</table>

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 as indicated on the bottle)
Elution Buffer
Spin Columns
2 ml Collection Tubes

To be provided by you
96-99% Ethanol
Isopropanol (for high yield sample preparation)
1.5 ml microtubes

Description
PCR Purification Kit is designed for the work-up of PCR reactions (removal of primer dimers, primers, nucleotides, proteins, salt, 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 and is optimized for working with DNA amounts of up to 50 µg. 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 as indicated on the bottle to the Washing Buffer. The additional use of Isopropanol is recommended for fragments smaller than 200 bp or larger than 5 kbp.

1a Standard Sample Preparation
For DNA fragment sizes in the range of 200 bp to 5 kbp:
- 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.

1b High Yield Sample Preparation
For DNA fragment sizes smaller than 200 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 sec in a microcentrifuge.
- Discard the flow-through.

4. Column Washing
- Add 750 µl of Washing Buffer to the Spin Column.
- Centrifuge at 10,000 g for 2 min.
- Discard the flow-through.

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