Quick-Start Protocol April 2016

MinElute® Reaction Cleanup Kit

The MinElute Reaction Cleanup Kit (cat. nos. 28204 and 28206) can be stored at room temperature (15–25°C) for up to 12 months if not otherwise stated on label. Store spin columns at 2–8°C upon arrival.

Further information

- *MinElute Handbook*: **www.qiagen.com/HB-2069**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Notes before starting

- This protocol is for cleanup of up to 5 µg DNA (70 bp to 4 kb) from enzymatic reactions.
- The yellow color of Buffer ERC indicates a pH of ≤7.5. Adsorption of DNA to the membrane is efficient only at pH ≤7.5.
- Add ethanol (96–100%) to Buffer PE concentrate before use (see bottle label for volume).
- All centrifugation steps are carried out at 17,900 x *g* (13,000 rpm) in a conventional tabletop microcentrifuge at room temperature (15–25°C).
- Symbols: ● centrifuge processing; ▲ vacuum processing.

1. Add 300 µl Buffer ERC to the enzymatic reaction (sample volume 20–100 µl) and mix. If the enzymatic reaction is in a volume of <20 µl, adjust the volume to 20 µl. If the enzymatic reaction exceeds 100 µl, split your reaction, add 300 µl Buffer ERC to each aliquot, and use the appropriate number of MinElute columns.

2. Check that the color of the mixture is yellow (similar to Buffer ERC without the enzymatic reaction). If the color of the mixture is orange or violet, add 10 µl 3 M sodium acetate, pH 5.0, and mix. The color of the mixture will turn to yellow.
3. Place a MinElute column ● in a provided 2 ml collection tube or ▲ into a vacuum manifold. See the *MinElute Handbook* for details on how to set up a vacuum manifold.
4. Apply sample to the MinElute column and ● centrifuge for 1 min or ▲ apply vacuum to the manifold until all samples have passed through the column. ● Discard flow-through and place the MinElute column back into the same collection tube.
5. Add 750 µl Buffer PE to the MinElute column and ● centrifuge for 1 min or ▲ apply vacuum. ● Discard flow-through and place the MinElute column back into the same collection tube.
6. Centrifuge the column in a 2 ml collection tube (provided) for 1 min. Residual ethanol from Buffer PE will not be completely removed unless the flow-through is discarded before this additional centrifugation.
7. Place each MinElute column into a clean 1.5 ml microcentrifuge tube.
8. To elute DNA, add 10 µl Buffer EB (10 mM Tris·Cl, pH 8.5) or water to the center of the MinElute membrane. (Ensure that the elution buffer is dispensed directly onto the membrane for complete elution of bound DNA.) Let the column stand for 1 min, and then centrifuge the column for 1 min.
9. If the purified DNA is to be analyzed on a gel, add 1 volume of Loading Dye to 5 volumes of purified DNA. Mix the solution by pipetting up and down before loading the gel.

Scan QR code for handbook.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual.