Quick-Start Protocol April 2016

MinElute® 96 UF PCR Purification Kit

The MinElute 96 UF PCR Purification Kit (cat. nos. 28051 and 28053) can be stored at room temperature (15–25°C) for up to 12 months if not otherwise stated on label.

Further information

- *MinElute 96 UF PCR Handbook*: **www.qiagen.com/HB-0585**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Notes before starting

- This protocol is for purifying up to 96 PCR samples in parallel using a manual procedure.
- The use of the MinElute 96 UF PCR Kit requires the QIAvac Multiwell Unit (cat. no. 9014579).
- Processing PCR sample volumes larger than 150 µl may lead to increased processing time and incomplete primer removal.
- For elution of DNA from MinElute 96 UF PCR Purification Plates, the use of a microplate shaker is recommended. Alternatively, purified DNA can be dissolved by pipetting samples up and down 20 times.
- Deionized water (used for the optional wash step) and elution buffer must be supplied by the user.

Calibration procedure for the microplate shaker

1. Use a 96-well polystyrene microplate with 300 µl round-bottom wells, e.g., 96-Well Microplates RB (24) (cat. no. 19581).
2. Add 200 µl of a colored aqueous solution (e.g., bromophenol blue) to 2 wells.
3. Place the 96-well plate on a microplate shaker. Set the speed to the lowest level and slowly increase the speed of the shaker.

4. The recommended shaking speed for elution is the maximum speed at which no liquid splashes out of the wells.

Purification procedure

5. Prepare the vacuum manifold according to the supplier's instructions. Place a waste tray inside the base of the manifold.
6. Place the MinElute 96 UF PCR Purification Plate on top of the vacuum manifold.
7. Pipet the PCR samples onto the MinElute 96 UF PCR Purification Plate.
8. Apply vacuum and maintain at –800 mbar for 5 min or until the wells are completely dry. Switch off vacuum. If the PCR volume exceeds 50 µl, a longer vacuum time is needed until all wells are dry.
9. **Optional**: Add 50 µl deionized water to each well, apply vacuum and maintain at –800 mbar for 5 min or until the wells are completely dry. Switch off vacuum. (The purity of the DNA is sufficient for most applications without this wash step.)
10. Carefully remove the MinElute 96 UF PCR Purification Plate from the vacuum manifold. Carefully tap the MinElute 96 UF PCR Purification Plate on a stack of clean absorbent paper to remove any liquid.
11. Add 20 µl deionized water to each well. DMSO (50% v/v), 3 x SSC, Buffer EB (10 mM Tris·Cl, pH 8.5) or similar buffer can be used instead of water for elution.
12. Shake the MinElute 96 UF PCR Purification Plate on a microplate shaker for 2 min at the recommended speed, determined by calibration of the microplate shaker. Alternatively, purified DNA may be dissolved by pipetting samples up and down 20 times.
13. Recover the purified PCR product by pipetting the eluate out of each well. For easier recovery of the eluates, the plate can be held at a slight angle.

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