June 2023

Quick-Start Protocol

QIAwave® Plasmid Miniprep Kit

The QIAwave Plasmid Miniprep Kit (cat. no. 27204 and cat. no 27206) can be stored at room temperature (15–25°C) for up to 12 months.

Further information

- *QIAwave Plasmid Miniprep Handbook Handbook*: **www.qiagen.com/HB-2991**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**
- The QIAwave Plasmid Miniprep Kit can be automated on the QIAcube Connect using the QIAprep Spin Miniprep Kit protocols that can be downloaded at **www.qiagen.com/qiacubeprotocols**.

Notes before starting

- **Optional**: Add LyseBlue® reagent to Buffer P1 at a ratio of 1 to 1000.
- **For cat. no. 27204**: Add 140 µL of the provided RNase A solution (conc.10mg/mL) to the 14 mL reconstituted Buffer P1 for a final concentration of 100 µg/mL. Mix and store at 2–8°C.
- **For cat. no. 27206**: Add 700 µL of the provided RNase A solution (conc.10 mg/mL) to the 70 mL reconstituted Buffer P1 for a final concentration of 100 µg/mL. Mix and store at 2–8°C.
- All centrifugation steps are carried out at 13,000 rpm (~17,900 *x g*) in a conventional table-top microcentrifuge.
- Preassemble QIAprep® 2.0 Spin Columns with Waste Tubes (provided).

- **Preparation of final buffers from buffer concentrates**: Transfer the entire volume of the buffer concentrate from the 2 mL tube or 15 mL bottle into a glass bottle appropriate for the final volume (Table 1), either by using a pipette or by pouring. Add ultrapure water and/or ethanol (96–100%) according to Table 1. To label the glass bottle, use the enclosed label and transfer it onto the glass bottle.

Table 1. Preparation of final buffers from buffer concentrates

Kit (cat. no.)	Final buffer	Buffer concentrate *	Ultrapure water	Ethanol (96–100%)	Final volume
27204	PE	PE/C	10 mL	44 mL	55 mL
	P1	P1/C	12 mL	–	14 mL
	EB	EB/C	20 mL	–	22 mL
27206	PE	PE/C	50 mL	220 mL	275 mL
	P1	P1/C	60 mL	–	70 mL
	EB	EB/C	50 mL	–	55 mL

*Use entire volume.

Procedure

1. Pellet 1–5 mL bacterial overnight culture by centrifugation at >8000 rpm (6800 x *g*) for 3 min at room temperature (15–25°C).
2. Resuspend pelleted bacterial cells in 250 µL Buffer P1 and transfer to a microcentrifuge tube.
3. Add 250 µL Buffer P2 and mix thoroughly by inverting the tube 4–6 times until the solution becomes clear. Do not allow the lysis reaction to proceed for more than 5 min. If using the LyseBlue reagent, the solution will turn blue.
4. Add 350 µL Buffer N3 and mix immediately and thoroughly by inverting the tube 4–6 times. If using the LyseBlue reagent, the solution will turn colorless.
5. Centrifuge for 10 min at 13,000 rpm (~17,900 x *g*) in a table-top microcentrifuge.
6. Apply 800 µL supernatant from step 5 to the QIAprep 2.0 Spin Column placed into a 2 mL Waste Tube (supplied) by pipetting. For centrifuge processing, follow the

instructions marked with a triangle (▲). For vacuum manifold processing, follow the instructions marked with a circle (●). ▲ Centrifuge for 30–60 s,discard the flow-through, and reuse Waste Tube, or ● apply vacuum to the manifold to draw the solution through the QIAprep 2.0 Spin Column and switch off the vacuum source.

7. **Recommended**: Wash the QIAprep 2.0 Spin Column by adding 500 µL Buffer PB. ▲ Centrifuge for 30–60 s, discard the flow-through, and reuse Waste Tube, or ● apply vacuum to the manifold to draw the solution through the QIAprep 2.0 Spin Column and switch off the vacuum source.

   Note: This step is only required when using *end*A+ strains or other bacteria strains with high nuclease activity or carbohydrate content.

8. Wash the QIAprep 2.0 Spin Column by adding 750 µL Buffer PE. ▲ Centrifuge for 30–60 s, discard the flow-through, and reuse Waste Tube or ● apply vacuum to the manifold to draw the solution through the QIAprep 2.0 Spin Column and switch off the vacuum source. Transfer the QIAprep 2.0 Spin Column to the Waste Tube.
9. Centrifuge for 1 min to remove residual wash buffer.
10. Place the QIAprep 2.0 Spin Column in a clean 1.5 mL microcentrifuge tube (not supplied). To elute DNA, add 50 µL Buffer EB (10 mM TrisCl, pH 8.5) or water to the center of the QIAprep 2.0 Spin Column, let stand for 1 min, and centrifuge for 1 min.

Document Revision History

Date	Changes
01/2022	Initial release
06/2023	Added cat. no. 27204 and necessary procedures. Edited according to new brand template.

Scan QR code for handbook.

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