QIAprep® Spin Miniprep Kit

The QIAprep Spin Miniprep Kit can be stored at room temperature (15–25°C) for up to 12 months. For more information, please refer to the most recent version of the QIAprep Miniprep Handbook, which can be found at: www.giagen.com/handbooks.

Notes before starting

- Optional: Add LyseBlue reagent to Buffer P1 at a ratio of 1 to 1000.
- Add the provided RNase A solution to Buffer P1, mix and store at 2–8°C.
- Add ethanol (96–100%) to Buffer PE before use (see bottle label for volume).
- All centrifugation steps are carried out at 13,000 rpm (~17,900 x g) in a conventional
- table-top microcentrifuge.
- 1. Pellet 1–5 ml bacterial overnight culture by centrifugation at 8500 rpm for 3 min at room temperature (15–25°C).
- 2. Resuspend pelleted bacterial cells in 250 µl Buffer P1 and transfer to a microcentrifuge
- 3. Add 250 µl Buffer P2 and mix thoroughly by inverting the tube 4–6 times until the solution becomes clear.
 - a. Do not allow the lysis reaction to proceed for more than 5 min. If using 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.
 - a. If using 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 by pipetting.
 - a. For centrifuge processing, follow the instructions marked with a triangle (\triangle).
 - b. For vacuum manifold processing, follow the instructions marked with a circle (•).
 - c. ▲ Centrifuge for 30–60 s and discard the flow-through
 - d. 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 0.5 ml Buffer PB.
 - a. ▲ Centrifuge for 30–60 s and discard the flow-through
 - b. Apply vacuum to the manifold to draw the solution through the QIAprep 2.0 spin column and switch off the vacuum source.
 - c. **Note:** This step is only required when using endA+ strains or other bacteria strains with high nuclease activity or carbohydrate content.
- 8. Wash the QIAprep 2.0 spin column by adding 0.75 ml Buffer PE.

- a. ▲ Centrifuge for 30–60 s and discard the flow-through
- b. Apply vacuum to the manifold to draw the solution through the QIAprep 2.0 spin column and switch off the vacuum source.
- c. Transfer the QIAprep 2.0 spin column to the collection tube.
- 9. Centrifuge for 1 min to remove residual wash buffer.
- 10. Place the QIAprep 2.0 column in a clean 1.5 ml microcentrifuge tube.
 - a. 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.
 - b. Let stand for 1 min.
 - c. Centrifuge for 1 min.
- 11. If the extracted DNA is to be analyzed on a gel, add 1 volume of Loading Dye to 5 volumes of purified DNA.
 - a. Mix the solution by pipetting up and down before loading the gel.