

QIAprep[®] Spin Miniprep Kit

The QIAprep Spin Miniprep Kit (cat. nos. 27104 and 27106) 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.qiagen.com/handbooks.

For technical assistance, please call toll-free 00800-22-44-6000, or find regional phone numbers at: www.qiagen.com/contact.

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 $\times g$) in a conventional table-top microcentrifuge.
1. Pellet 1–5 ml bacterial overnight culture by centrifugation at >8000 rpm (6800 $\times g$) for 3 min at room temperature (15–25°C).
 2. Resuspend pelleted bacterial cells in 250 μ l Buffer P1 and transfer to a microcentrifuge tube.
 3. Add 250 μ l 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 LyseBlue reagent, the solution will turn blue.



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4. Add 350 μ l Buffer N3 and mix immediately and thoroughly by inverting the tube 4–6 times. If using LyseBlue reagent, the solution will turn colorless.
 5. Centrifuge for 10 min at 13,000 rpm ($\sim 17,900 \times g$) in a table-top microcentrifuge.
 6. Apply 800 μ l supernatant from step 5 to the QIAprep 2.0 spin column by pipetting. For centrifuge processing, follow the instructions marked with a triangle (\blacktriangle). For vacuum manifold processing, follow the instructions marked with a circle (\bullet). \blacktriangle Centrifuge for 30–60 s and discard the flow-through, or \bullet 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. \blacktriangle Centrifuge for 30–60 s and discard the flow-through, or \bullet 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 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. \blacktriangle Centrifuge for 30–60 s and discard the flow-through, or \bullet 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 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. To elute DNA, add 50 μ l 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.
 11. If the extracted 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.