



Oct 21, 2019

## Miniprep Protocol (QIAGEN)

Aditya Mohan<sup>1</sup><sup>1</sup>Johns Hopkins University*In Development*[dx.doi.org/10.17504/protocols.io.8ibhuan](https://doi.org/10.17504/protocols.io.8ibhuan)


Aditya Mohan ⚡

- 1 Resuspend pelleted bacterial cells in 250 µl Buffer P1 and transfer to a microcentrifuge tube.
- 2 Add 250 µl Buffer P2 and mix thoroughly by inverting the tube 4–6 times.
- 3 Mix gently by inverting the tube. Do not vortex, as this will result in shearing of genomic DNA.
- 4 Add 350 µl Buffer N3 and mix immediately and thoroughly by inverting the tube 4–6 times.
- 5 Centrifuge for 10 min at 13,000 rpm (~17,900 x g) in a table-top microcentrifuge. A compact white pellet will form.  
⌚ 17900 x g
- 6 Apply 800 µl of the supernatant from step 4 to the QIAprep 2.0 spin column by pipetting.
- 7 Centrifuge for 30–60 s. Discard the flow-through.  
⌚ 00:01:00
- 8 Wash the QIAprep 2.0 spin column by adding 0.5 ml Buffer PB and centrifuging for 30–60 s. Discard the flow-through.  
⌚ 00:01:00
- 9 Wash QIAprep 2.0 spin column by adding 0.75 ml Buffer PE and centrifuging for 30–60 s.  
⌚ 00:01:00

10 Discard the flow-through, and centrifuge at full speed for an additional 1 min to remove residual wash buffer.

 00:01:00

11 Place the QIAprep 2.0 column in a clean 1.5 ml microcentrifuge tube. To elute DNA, add 50 µl Buffer EB.

 This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited