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# Priming and loading a MinION flowcell v2

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1

Works for me

This protocol is published without a DOI.



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## EXTERNAL LINK

<https://doi.org/10.1016/j.remle.2020.05.007>

## PROTOCOL CITATION

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<https://protocols.io/view/priming-and-loading-a-minion-flowcell-v2-bkatksen>



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## PROTOCOL INTEGER ID

41011

## PARENT PROTOCOLS

In steps of

[nCoV-2019 sequencing protocol v3 \(LoCost\)](#)

- 1 Thaw the following reagents at room temperature before placing on ice:
  - Sequencing buffer (SQB)
  - Loading beads (LB)
  - Flush buffer (FLB)
  - Flush tether (FLT)
- 2 Add  30 µl FLT to the FLB tube and mix well by vortexing.
- 3 If required place a new MinION flowcell onto the MinION by flipping open the lip and pushing one end of the flowcell under the clip and pushing down gently.
- 4 Rotate the inlet port cover clockwise by 90° so that the priming port is visible.

- 5 Take a P1000 pipette and tip and set the volume to **800 µl** . Place the tip in the inlet port and holding perpendicularly to the plane of the flowcell remove any air from the inlet port by turning the volume dial anti-clockwise.



Be careful not to remove so much volume that air is introduced onto the rectangular array via the outlet.

- 6 Load **800 µl** of FLB (plus FLT) into the flow cell via the inlet port, dispense slowly and smoothly trying to avoid the introduction of any air bubbles.

- 7 Wait for **00:05:00** .

- 8 Gently lift the SpotON cover to open the SpotON port.

- 9 Load another **200 µl** of FLB (plus FLT) into the flow cell via the inlet port, this will initiate a siphon at the SpotON port to allow you to load the library dilution.

- 10 In a new tube prepare the library dilution for sequencing:

Component	Volume
SQB	37.5 µL
LB	25.5 µL
Library	12 µL
<b>Total</b>	<b>75 µL</b>



Mix LB immediately before use as they settle quickly.

Make up with EB if less than 12 µL library is required.

- 11 Mix the prepared library gently by pipetting up and down just prior to loading.
- 12 Add the **75 µl** library dilution to the flow cell via the SpotON sample port in a dropwise fashion. Ensure each drop siphons into the port before adding the next.
- 13 Gently replace the SpotON sample port cover, making sure the bung enters the SpotON port, close the inlet port and close the MinION lid.