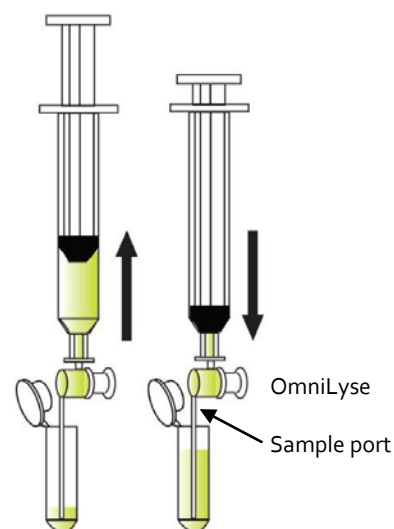


OmniLyse® Protocol
For OmniLyse (standard version) and OmniLyse HL (high-load version)
(For research purposes only)

OmniLyse (standard version)

(Suggested max. load: up to 1×10^8 cells)

1. Pre-wash OmniLyse® cartridge with 500 - 1000 μ l of your preferred buffer (ideally, low ionic strength, neutral pH buffer). Attach cartridge to Bat-Pac™ battery pack via the blue mating connectors, lining up the red arrows. Using the provided syringe, fill the chamber with buffer, turn on the battery pack, and pass buffer back and forth several times through the cartridge. Expel all the fluid and turn off battery pack.
2. Re-suspend cell pellet (up to 1×10^8 cells) in 500 – 1000 μ l of your preferred buffer (ideally, low ionic strength, neutral pH buffer). Insert the tubing from the sample port into the sample. Draw sample into OmniLyse® cartridge with attached syringe, displacing the air.
3. Turn on the battery pack and slowly draw the majority of the remaining sample through the cartridge such that cartridge remains filled with sample. Reverse direction, dispensing the majority of the sample through the cartridge into the sample tube. Continue withdrawing and infusing the sample for 40 seconds to 2 minutes, depending upon ease of lysis and desired lysis efficiency. Use additional air to purge the sample from cartridge.
4. Turn off battery pack, discard OmniLyse® cartridge and syringe appropriately.



OmniLyse HL (high-load version)

(Suggested max. load: up to 1×10^{11} cells)

1. Pre-wash OmniLyse® HL cartridge with 500 - 1000 μ l of your preferred buffer (ideally, low ionic strength, neutral pH buffer). Attach cartridge to Bat-Pac™ battery pack via the blue mating connectors, lining up the red arrows. Attach the luer-lock tubing tip to the sample entry port and using the provided syringe, fill the chamber with buffer. Turn on the battery pack, and pass buffer back and forth several times through the cartridge. Expel all the fluid and turn off battery pack.
2. Re-suspend cell pellet (up to 1×10^{11} cells) in 500 – 1000 μ l of your preferred buffer (ideally, low ionic strength, neutral pH buffer). Insert the tubing tip from the sample port into the sample. Draw sample into OmniLyse® cartridge with attached syringe, displacing the air.
3. Turn on the battery pack and slowly draw the majority of the remaining sample through the cartridge such that cartridge remains filled with sample. Reverse direction, dispensing the majority of the sample through the cartridge into the sample tube. Continue withdrawing and infusing the sample for 40 seconds to 2 minutes, depending upon ease of lysis and desired lysis efficiency. Use additional air to purge the sample from cartridge.
4. Turn off battery pack, discard OmniLyse® cartridge and syringe appropriately.

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