

OmniLyse®X lysis of liquid sample
For research purposes only

OmniLyse®X is intended for research purposes only. This protocol was developed for lysis of liquified samples. Carefully read instructions prior to use. For any questions regarding use of the product please contact Claremont Bio at 1-855-855-1777.

Contents

48	OmniLyse® X Devices
1	6V battery pack
1	Funnel & Scoop Set
1	Bottle of lysis beads
48	Lysate recovery transfer pipettes

Beads are a ceramic material – do not ingest or inhale

OmniLyse®X (OLX) Lysis Protocol

1. Device setup

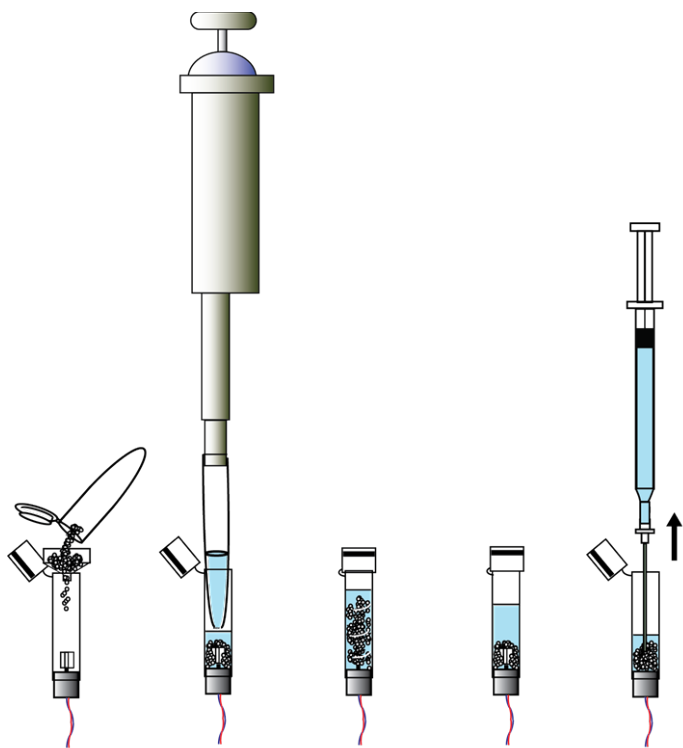
- a. Open OLX cap
- b. Using the supplied funnel and scoop dispense desired amount of beads into the OLX
NOTE: Desired bead amount can vary. Recommended amount of beads for 0.5 mL OLX is 1 scoop (~500 mg) and for 2 mL OLX it is 1 - 1 ½ scoops (~500-750 mg). In the presence of a detergent (e.g., as low as 0.05% SDS) a higher bead amount, such as 2 scoops (~1 g), can be used in the 2 mL OLX.

2. Sample Lysis

- a. Pipette or add 0.5-1.5 mL of desired liquid sample into OLX (depending on OLX tube size)
NOTE: Depending on size of OLX tube, total volume of sample should not exceed 0.5 mL for 0.5 mL OLX, or 1.5 mL for 2.0 mL OLX.
- b. Close OLX cap
- c. Insert blue connector from OLX wiring into blue connector on battery pack wiring
- d. Turn on battery pack and lyse for 3-5 minutes
NOTE: Depending on the liquid matrix and microbe samples lysis may take between 30sec to 10 min. Most bacteria/fungus/ viruses are disrupted in 3 minute.
- e. Turn off battery pack, disconnect OLX from battery pack and allow sample to settle in OLX for 1-2 minutes

3. Sample Collection

- a. Insert the mesh end of the filter tip to just below the surface of the beads. Tilting the tube may help
- b. Slowly draw sample completely into bulb
- c. Transfer sample to fresh microfuge tube
- d. Discard the OLX and transfer pipette in the appropriate waste container



①

Load beads into OLX using funnel

②

Load liquid sample in buffer into OLX and close tube lid

③

Attach battery pack, and turn on pack lysing sample for 3-5 min

④

Turn off battery pack allow sample to settle

⑤

Open lid and collect lysate using syringe with filter and transfer to new tube

OmniLyse®X Visual Protocol

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