

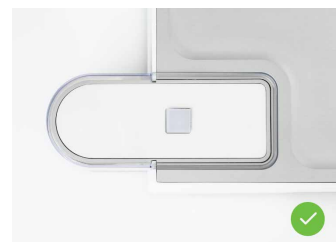
QUICK START GUIDE

CellPore™ Transfection System

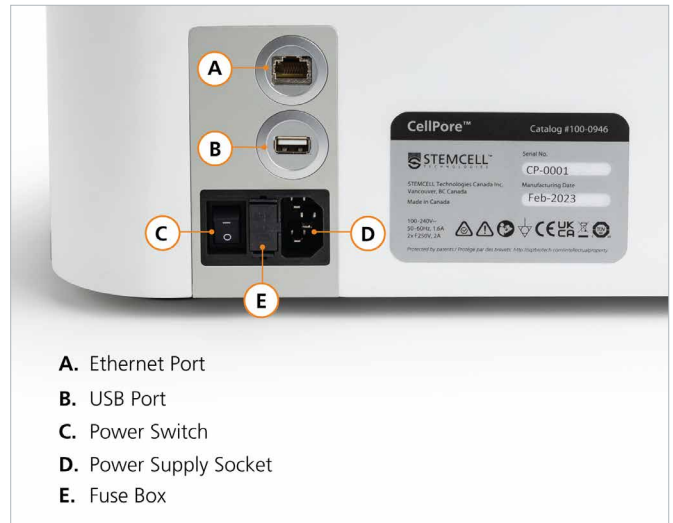
For detailed operating instructions, please refer to the Technical Manual for the CellPore™ Transfection System (Document #10000018433) available at www.STEMCELL.com.

1 Start Up CellPore™ Transfection System

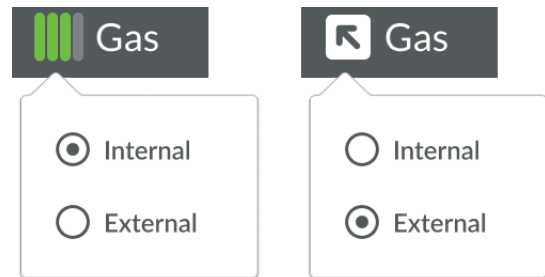
- i) Ensure the instrument is placed on a flat surface inside a biosafety cabinet with 13 mm of clearance on each side.
- ii) Slide the **Safety Shield** into place, ensuring it fits properly into the groove. The instrument will not run if the shield is improperly placed.
- iii) Insert the **Gas Cylinder** into the port on the left side of the instrument. Turn it toward you to screw it in. Several turns are required; stop when it is fully engaged and firm.



- iv) Plug in the power cable at the back of the instrument and start up the CellPore™ instrument using the power switch (C) located on the back of the unit.

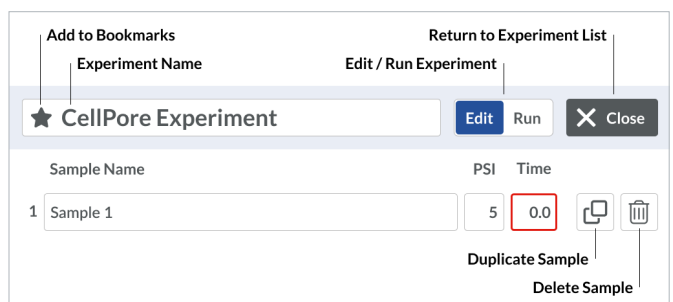
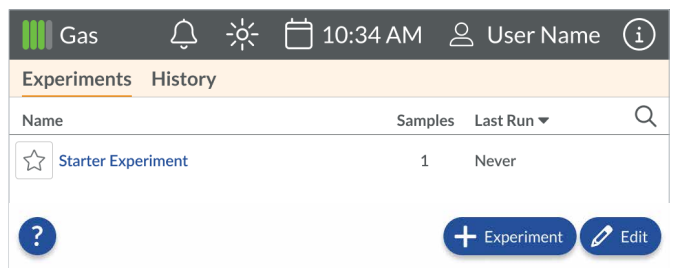
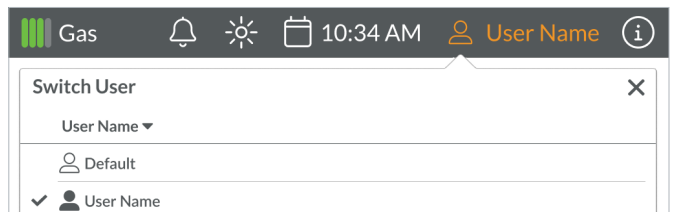


- v) The instrument will take up to 2 minutes to start. Once the loading sequence is complete, ensure that the gas source is set to **Internal** by tapping on the **Gas** icon in the Control Bar.



2 Set Up the Experiment

- i) On the Control Bar, tap the **User Name** icon to select an existing profile or create a new one.
- ii) Tap the **+ Experiment** button at the bottom of the screen to create a new experiment.
- iii) The experiment will open in **Edit Mode**. Define the **Sample Name**, **Pressure (psi)** and **Run Time (seconds)** by tapping on the corresponding input boxes.



- iv) Tap the + **Sample** button to add more samples to your experiment.

Sample Name	PSI	Time
1 Sample 1	30	3.0
2 Sample 2	50	3.0
3 Sample 3	70	3.0

3 Prepare the Cells and Cargo for Mechanoporation

- i) Prepare a single-cell suspension in the appropriate CellPore™ Delivery Medium. Add your desired cargo(es) to the cell suspension.
- ii) **Optional but recommended to enhance post-delivery viability:** Remove the Cartridge Insert of a new CellPore™ Delivery Cartridge and add culture medium to the Collection Tube. Reinsert the Cartridge Insert into the Collection Tube.
- iii) Transfer the cells + cargo preparation to the Cartridge Insert (typically 50 µL).

Note: Always insert the pipette tip to the bottom of the Cartridge Insert when dispensing the sample and avoid creating excessive bubbles.



4 Run the CellPore™ Delivery Cartridge

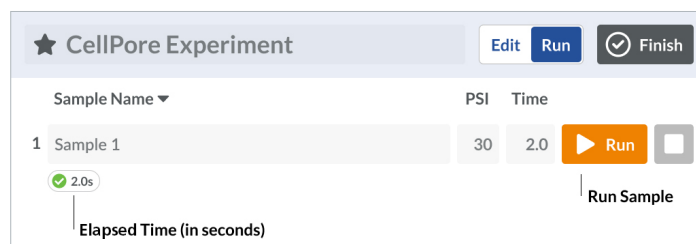
- i) Toggle the experiment from **Edit Mode** to **Run Mode**.

Sample Name ▼	PSI	Time
1 Sample 1	30	3.0
2 Sample 2	50	3.0
3 Sample 3	70	3.0

- ii) Place the loaded CellPore™ Delivery Cartridge into the Cartridge Holder.



- iii) Tap the orange Run button next to the corresponding sample for the cartridge. The instrument will raise the CellPore™ Delivery Cartridge to the nozzle and apply air pressure for the duration of time that was preset for the sample.



5 Retrieve the CellPore™ Delivery Cartridge

- i) Once the run is complete, remove the cartridge from the instrument.
- ii) **Optional but recommended:** Briefly spin down the cartridge in a microcentrifuge to ensure complete volume recovery.
- iii) Depending on the cell type and cargo, either proceed immediately to downstream analysis, or culture the cells until ready for analysis.

Note: Some cell types may benefit from an undisturbed rest period in the incubator (37°C, 5% CO₂) for 30 minutes up to 2 hours to allow sufficient time for recovery. In this case, do not transfer the cells out of the collection tube until the rest period is complete, as this may impact viability.

- iv) Once all sample runs are complete, tap **Finish** to end the experiment and return to the home screen.

6 Shut Down CellPore™ Transfection System

Shut down the instrument by turning the power switch located at the back of the unit to the **OFF** position.

Note: Avoid turning the power off and on rapidly; wait 30 - 60 seconds before turning the unit on again.

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