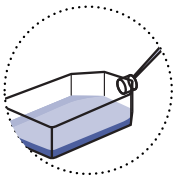
Nucleofection® Handling – Optimized Protocols

Lonza

Step 1

Harvest cells of interest.



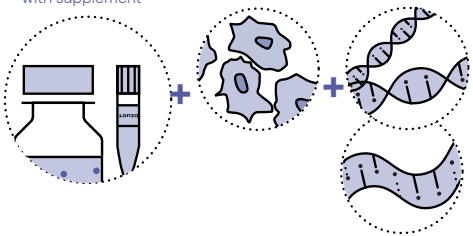
Step 2

Mix and combine.

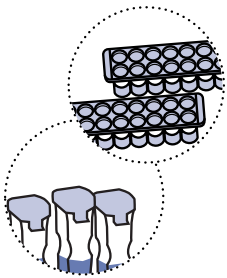
Nucleofector® Solution with supplement

Cells

Substrate



Transfer to a Lonza certified cuvette.

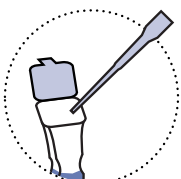


Step 3

Select Nucleofector® Program. Insert cuvette. Press » Start «.

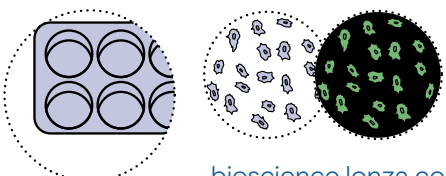
Step 4

Rinse cuvette with culture medium.



Step 5

Transfer to culture dish. Expression can be detected as soon as 3 – 8 hours post Nucleofection® Experiment.



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Tips to get more out of your Nucleofection®

- Prepare multiwell plates with fresh medium and pre-equilibrate at 37°C prior to experiment
- Use cells at low passage number and at the recommended confluence or density (logarithmic growth)
- Limit time of exposure to trypsin, carefully monitor cell detachment
- Count cells and use appropriate cell number according to optimized protocol; using fewer cells can result in increased mortality
- Use high quality DNA, purified with an endotoxin removing kit; please check the purity of each plasmid preparation by measurement of the A260 : A280 ratio
- Centrifuge at room temperature at the centrifugation speed (80 – 100 xg) and for the time specified in the protocol
- After centrifugation and addition of Nucleofector® Solution, swirl solution /cell pellet for single cell suspension and avoid manipulating or pipetting pellet
- Following Nucleofection®, add ~ 500 µL of pre-warmed medium on top of cells in cuvette with disposable pipette
  - Gently bring pipette tip to the bottom of cuvette and collect cells
  - Gently seed the cell suspension into prepared multiwell-plate
  - Do NOT mix cells by repeated aspiration

For more information please check our Optimized Protocols at **www.lonza.com/cell-database** or contact our Scientific Support Team.

Contact Us

North America/International

Scientific Support:
800 521 0390 (toll free)
scientific.support@lonza.com

Europe

Scientific Support:+32 87 321 611
scientific.support.eu@lonza.com

Lonza Cologne GmbH – 50829 Cologne Germany

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