

Lonza Nucleofector™ Technology: TRANSFECT THE UNTRANSFECTABLE

Lonza

High Efficiency for Primary Cells, Stem Cells, and Hard-to-Transfect Lines

The Lonza Nucleofector™ is the industry-standard electroporation-based platform designed to deliver substrates (DNA, RNA, RNP, or proteins) directly into the cell nucleus. Unlike traditional transfection methods that rely on cell division, Nucleofection enables high efficiency in non-dividing and primary cells with exceptionally high viability.





Special Offer!

12 month free warranty extension on the 4D-Nucleofector® Core Unit, valued at **\$1,544 + GST.**

Valid until **July 31st, 2026.**



Core Advantages

-  **Direct Nuclear Entry:** Substrates are delivered straight to the nucleus, allowing for rapid expression (within 2–8 hours) without waiting for nuclear envelope breakdown during mitosis.
-  **Exceptional Viability:** Optimized electrical pulses and cell-specific solutions minimize cell stress, preserving original cell functionality and morphology.
-  **Unrivaled Versatility:** Proven protocols for over 650 cell lines and 150+ primary cell types, including T-cells, neurons, and hematopoietic stem cells.
-  **Seamless Scalability:** The modular 4D-Nucleofector™ System allows you to transition from 20 µL strips (small scale) to 100 µL cuvettes or large-scale LV units (1x10⁷ to 1x10⁹ cells) without re-optimizing parameters.



The 4D-Nucleofector™ Modular Design

Module	Applications
Core Unit	The "brain" of the system; controls all secondary modules and protocols.
X Unit	Supporting 100 µL cuvettes and 16-well strips (20 µL) for routine research.
Y Unit	Optimized for adherent cells; transfects cells directly in 24-well culture plates.
LV Unit	Large-volume transfection for bioprocessing and cell therapy (up to 20 mL).
96-well Unit	High-throughput plate-based screening and optimization.



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Key Applications

Immunology:

Highly efficient CRISPR/Cas9 RNP delivery in primary T-cells and NK cells for CAR-T research.

Stem Cell Research:

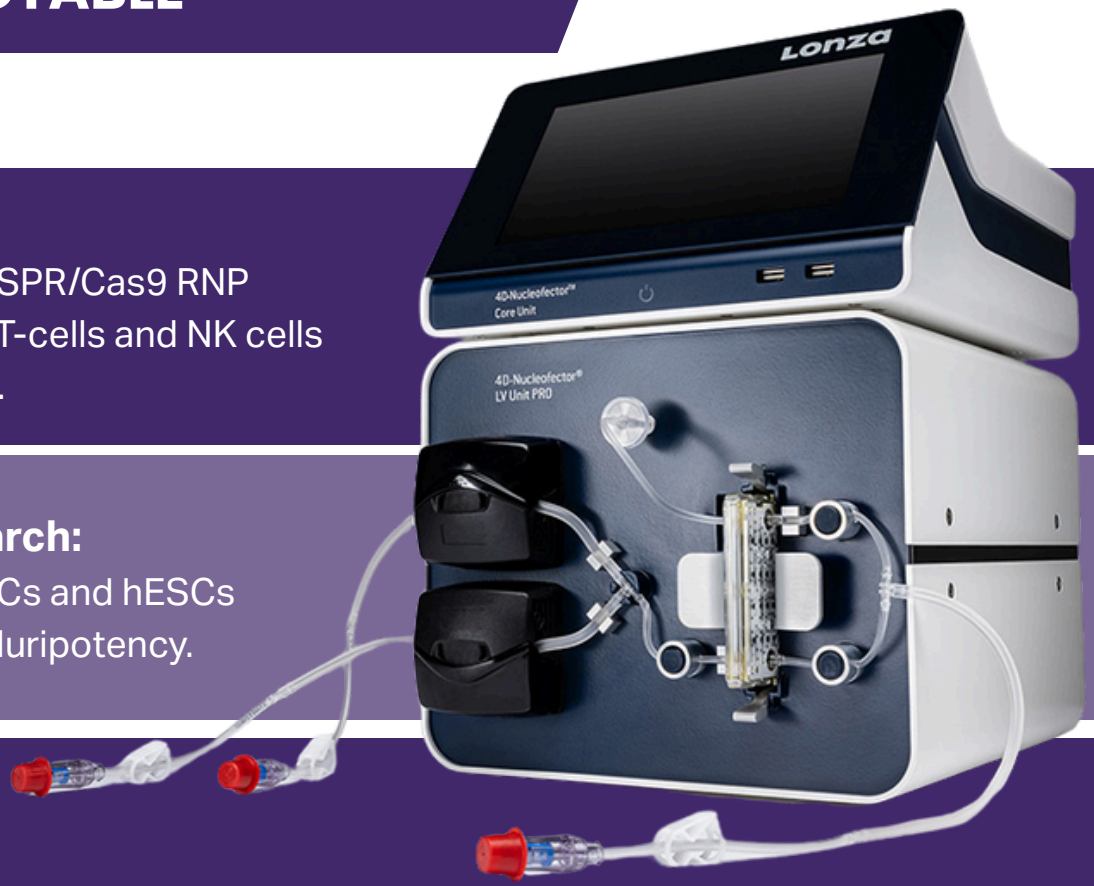
Transfection of iPSCs and hESCs while maintaining pluripotency.

Neuroscience:

High-viability transfection of primary neurons and glial cells.

Drug Discovery:

High-throughput functional genomic screening using the 96-well shuttle.



Support & Integration

As your specialized Australian distributor, Scientifix provides the complete Nucleofector™ ecosystem, including:

- **Optimized Kits:** Cell-specific solutions and certified cuvettes.
- **Database Access:** Direct access to Lonza's repository of validated protocols knowledge.lonza.com.
- **Technical Consultation:** On-site demonstrations and protocol optimization for your specific cell lines.

Accelerate your gene expression studies today.

Click here to discuss which 4D-Nucleofector™ configuration best fits your laboratory's workflow and for an obligation free demo.

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