

4D-Nucleofector® Platform

Efficient and reproducible results for your transfection applications



The modular design of the Nucleofector® Platform with units for small, medium or large scale, adherent cells or cells in suspension, allows you to configure the 4D-Nucleofector® System to fit your specific research needs. Up to 3 functional units can be added to the 4D-Nucleofector® Core Unit and each is suited for different applications:

- X Unit:** Nucleofection® of various cell numbers in different formats (16-well Nucleocuvette® Strips or 100 µL Nucleocuvette® Vessels)
- Y Unit:** Enabling adherent Nucleofection® in 24-well culture plates
- LV Unit PRO:** Large-scale transfection of up to 1×10^9 cells in a single run
- 96-well Unit:** Higher throughput Nucleofection® Experiments in 96-well Nucleocuvette® Plates

Cell type-specific Optimized Protocols or recommendations are available in our [Knowledge Center](#). In these Optimized Protocols we share our recommended Nucleofection® Conditions as well as our experience and knowledge for treatment of individual cell types.

Transferability of Nucleofection® conditions between units and vessels

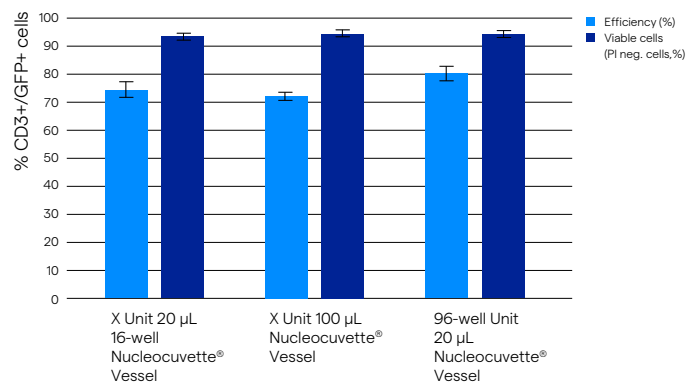


Figure 1
Transfection of human T cells with plasmid DNA (pMax-GFP® Plasmid) Fresh PBMCs were transfected with pmaxGFP® Plasmid in a 100 µL Nucleocuvette® Vessel or a 20 µL Nucleocuvette® Vessel using the 4D-Nucleofector® X Unit or the 96-well Unit for reference. Transfection efficiency in CD3-positive T cells was analyzed 24 hours post Nucleofection® Procedure. Plasmid data represent the mean of various independent experiments. Live cell discrimination was done with Propidium Iodide.

Modular design for unmatched flexibility in scale and throughput

- All modules fully integrated in one system, including single, 16-well, 24-well, 96-well and large scale formats
- Seamless transfer of transfection conditions between different Nucleofector® Vessels
- Preconfigured system for convenient “plug & play” set-up in less than two minutes
- Easy setup and management of experiments via intuitive software and touchscreen display
- High transfection efficiency, up to 90% for plasmid DNA and 99% for oligonucleotides
- Excellent preservation of physiological status and viability of transfected cells
- Optimized transfection protocols for >750 cell types
- More than 21,500 peer-reviewed publications using Nucleofector® Technology

Contact Us

North America

Customer Service: +1 800 638 8174 (toll free)
order.us@lonza.com
Scientific Support: +1 800 521 0390 (toll free)
scientific.support@lonza.com

Europe

Customer Service: +32 87 321 611
order.europe@lonza.com
Scientific Support: +32 87 321 611
scientific.support.eu@lonza.com

International

Contact your local Lonza Distributor
Customer Service: +1 301 898 7025
Fax: +1 301 845 8291
scientific.support@lonza.com

International Offices

Australia	+61 1300 657 508
Belgium	+32 87 321 611
Brazil	+55 11 4028 8000
China	+86 21 6305 8866
France	0800 91 19 81 (toll free)
Germany	0800 182 52 87 (toll free)
India	+91 124 6052941
Japan	+81 3 6264 0660
Luxemburg	+32 87 321 611
Singapore	+65 6521 4379
The Netherlands	0800 022 4525 (toll free)
United Kingdom	0808 234 97 88 (toll free)

Ordering information

Cat. No.	Product Name	Capacity
AAF-1003B	4D-Nucleofector® Core Unit	1 Unit
AAF-1003X	4D-Nucleofector® X Unit	1 Unit
AAF-1003Y	4D-Nucleofector® Y Unit	1 Unit
AAF-1003S	4D-Nucleofector® 96-well Unit	1 Unit
AAF-1003L	4D-Nucleofector® LV Unit PRO	1 Unit
AWA-3001-B	4D-Nucleofector® Core Unit Guarantee Extension	For 1 year
AWA-3001-X	4D-Nucleofector® X Unit Guarantee Extension	For 1 year
AWA-3001-Y	4D-Nucleofector® Y Unit Guarantee Extension	For 1 year
AWA-3001-96	4D-Nucleofector® 96-well Unit Guarantee Extension	For 1 year
AWA-3001-LV	4D-Nucleofector® LV Unit Guarantee Extension	For 1 year

Lonza Cologne GmbH-50829 Cologne Germany

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