



Next Gen 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:** 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

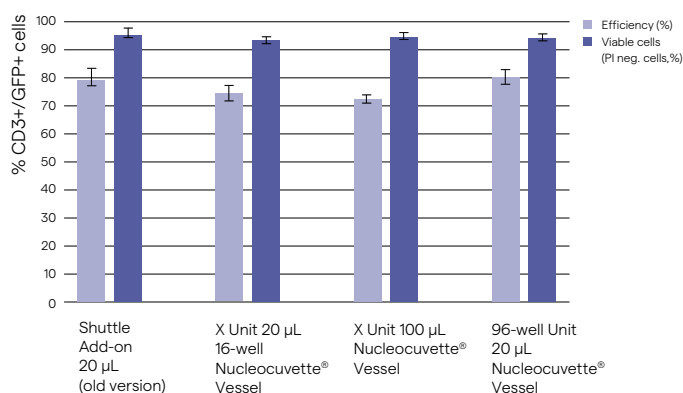


Figure 1
Transfection of human T cells with plasmid DNA (pMax-GFP® Plasmid) Fresh PBMCs were transfected with pmaxGFP® Plasmid in a 100 µL Nucleocuvette® Vessel or a 20 µL Nucleocuvette® Vessel using the Next Generation 4D-Nucleofector® X Unit, the 96-well Unit or the 4D-Nucleofector® Shuttle® Add-on 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 and 96-well formats
- Seamless transfer of transfection conditions between different Nucleofection® Vessels
- Preconfigured system for convenient “plug & play” setup 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
- Provides excellent preservation of physiological status and viability of transfected cells
- Optimized transfection protocols for >750 cell types

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
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

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