

Next Generation 4D-Nucleofector® Platform



Efficient and reproducible results for all 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

There are cell type-specific Optimized Protocols or recommendations available in our [knowledge center](#). In these Optimized Protocols the best Nucleofection® Conditions are indicated. In addition, we share our experience and knowledge for treatment of individual cell types.



Next Generation 4-D Nucleofector® Platform

Transferability of Nucleofection® Conditions between units and vessels

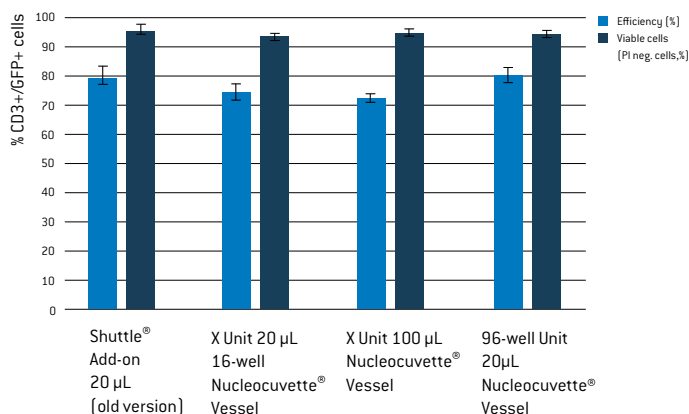


Figure 1. Transfection of human T cells with plasmid DNA [pMax-GFP® Plasmid] Fresh PBMCs were transfected with pmaxGFP® Plasmid in a 100 µL Nucleocuvette® Vessel or a 20 µL Nucleocuvette® Vessel using the Next Generation 4D-Nucleofector® X Unit, the 96-well Unit or the 4D-Nucleofector® Shuttle® Add-on 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. Life 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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