

4D-Nucleofector™ LV Unit For Large-Scale Transfection



Efficient, Closed and Scalable Transfection

Experience the new functional unit for the 4D-Nucleofector™ System which expands our proven 4D-Nucleofector™ System to larger scale transfection.

The LV Unit allows for closed, scalable transfection of larger cell numbers in the range of $1x10^7$ to $1x10^9$ cells. Transfection protocols can be established in smaller scale using the X Unit and subsequently transferred to the LV Unit without the need for re-optimization. Transferability has been tested for various cell types, including human T cells, CHO-S, HEK293-S, or K562.

Benefit from

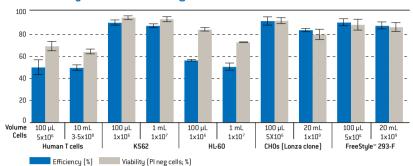
- Closed system Sterile Nucleofection of up to 109 cells
- Real scalability Optimization in small scale
- Established protocols Benefit from 700+ optimized cell types
- Simple handling Minimal training needs
- 4D-Nucleofector™ LogWare Optional operation via 21CFR part11 compliant software



4D-Nucleofector™ System with Core and LV Unit and mounted LV Nucleocuvette™ Cartridge

www.lonza.com/LV-unit

Transferability From Small to Large-Scale



Comparison of various exemplary cell types transfected with pmaxGFP™ Vector in small volume [100 µL Nucleocuvette™ Vessels] or larger volumes [1 mL or LV Nucleocuvette™ Cartridge] using the same conditions. Data represent the mean of various independent experiments.

Two Formats Available



1 mL Nucleocuvette™ Cartridge

- 1 mL filling volume
- Up to 1x10⁸ cells
- Manual filling via sterile injection port



LV Nucleocuvette™ Cartridge

- Up to 20 mL processing volume (in 1 mL steps)
- Up to 1x10⁹ cells
- Automatic filling via reservoirs or bags

Applications

- Ex-vivo modification of human primary cells for cell therapy applications (e.g. genome editing, generation of CAR-T cells)
- Transient production of potential therapeutic proteins or antibodies for construct screening
- Generation of large numbers of transiently modified primary cells for cell-based assays

Ordering Information

Cat. No.	Product Name	Description
Devices		
AAF-1002B	4D-Nucleofector™ Core Unit	
AAF-1002X	4D-Nucleofector™ X Unit	
AAF-1002L	4D-Nucleofector™ LV Unit	Including 2 LV Reservoir Racks
Kits		
V4LC-2002	SF Cell Line 4D-Nucleofector™ LV Kit L	1 mL Nucleocuvette™ Cartridge (2 reactions)
V4LC-2020	SF Cell Line 4D-Nucleofector™ LV Kit XL	LV Nucleocuvette™ Cartridge (1 reaction)
V4LC-2520	SF Cell Line 4D-Nucleofector™ LV Kit XL	LV Nucleocuvette™ Cartridge (5x1 reaction)
V4LP-3002	P3 Primary Cell 4D-Nucleofector™ LV Kit L	1 mL Nucleocuvette™ Cartridge (2 reactions)
V4LP-3020	P3 Primary Cell 4D-Nucleofector™ LV Kit XL	LV Nucleocuvette™ Cartridge (1 reaction)
V4LP-3520	P3 Primary Cell 4D-Nucleofector™ LV Kit XL	LV Nucleocuvette™ Cartridge (5x1 reaction)
Accessories		
AAK-2003	4D-Nucleofector™ LV Reservoir Rack	1
SAAF-1001	4D-Nucleofector™ LogWare	
V4LR-1001	4D-Nucleofector™ LV Reservoirs	2

Contact Information

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

Singapore

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

International Offices

Australia +61 3 9550 0883 +32 87 321 611 Belgium Brazil +55 11 2069 8800 France 0800 91 19 81 (toll free) Germany 0800 182 52 87 (toll free) India +91 22 4342 4000 Japan +81 3 6264 0660 Luxemburg +32 87 321 611

The Netherlands 0800 022 4525 (toll free)
United Kingdom 0808 234 97 88 (toll free)

+65 6521 4379

Lonza Cologne GmbH - 50829 Cologne Germany

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