

# 4D-NUCLEOFECTOR® LV UNIT PRO

NEW

LONZA

Efficient and Scalable Electroporation From Research to GMP Manufacturing

## Next-Generation Large-Scale Electroporation

### New Features

- Optimized cartridge design for improved performance for CRISPR-based knock-out/in or transposition
- Fixed-volume cartridge with different filling volumes between 0.5 and 2 mL and new port for easy loading and clearing
- Flow-through cartridge with more robust sample processing
- Cartridge insertion support and visual acknowledgement

### Benefits

- Reliable, robust and efficient delivery of complex, clinically relevant cargoes
- Easy scale up for up to 1 billion T Cells
- Two vessel formats for closed transfection of medium or larger cell numbers
- Proven performance for resting and activated T Cells
- Research-grade and GMP-grade consumables
- Highly-skilled technical support

## The 4-D Nucleofector® Systems

System	Small Scale, Optimization	Large Scale	High Throughput/ Screening	Small Scale
	Suspension	Suspension	Adherence	
4D-Nucleofector® X Unit				
Throughput	Low - Medium	Low	High	Very high
Reaction vessel				
Cell number	20 µL: 10 <sup>1</sup> to 10 <sup>6</sup> 100 µL: 10 <sup>3</sup> to 10 <sup>7</sup>	10 <sup>3</sup> to 10 <sup>9</sup>	10 <sup>4</sup> to 10 <sup>6</sup>	10 <sup>4</sup> to 10 <sup>5</sup>



Two vessel formats available in research or GMP quality

### 2 mL Nucleocuvette® Cartridge PRO



- Fixed volume samples of 0.5, 1, 1.5 or 2 mL
- Up to 2 × 10<sup>8</sup> cells
- Manual filling via optimized sterile injection port

### LV Nucleocuvette® Cartridge PRO



- Up to 20 mL processing volume
- Easily scalable to 1 × 10<sup>9</sup> cells
- Automatic filling via 4D-Nucleofector LV Reservoirs or bags
- Weldable tubing

Scan QR or Click here for more information on the LV Unit Pro and the 4D-Nucleofector® range.



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