



Electroporation

Neon NxT Electroporation System

High-efficiency electroporation system for mammalian cells, including primary, immune, and stem cells

Features of the Invitrogen™ Neon™ NxT Electroporation System

- User-friendly benchtop design that fits in a tissue culture hood for easy, efficient transfection of a wide variety of mammalian cells, including primary and stem cells
- Ability to transfect 1×10^4 to 1×10^7 cells per reaction in a sample volume of 10 μ L or 100 μ L in a variety of cell culture formats (60 mm, 6-well, 24-well, and 96-well)
- Uses a single buffer kit for all cell types
- Simple touchscreen interface for easy programming of electroporation parameters
- Available with various preprogrammed optimization protocols and the option to customize cell-specific protocols
- Built-in features to enhance user safety and feedback loop to set each reaction up for success
- Choose from either the 1-channel pipette or 8-channel pipette that can transfect 96-reactions in less than 15 minutes

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Specifications

Attribute	Description
Electrical rating	100–240 VAC, 50/60 Hz, 270 VA
Pulse voltage	500–2,500 V
Pulse duration	1–100 ms
Maximum duty cycle	0.1
Charging time	Maximum 6 seconds
Altitude	Up to 2,000 meters
Operating temperature	15°C to 30°C
Maximum relative humidity	Up to 80%
Degree of protection	IPX0
Protective earthing	Class I (earthed)
Installation category	II
Instrument type	Benchtop unit
Device dimensions (W x L x H)	9.5 x 10.1 x 7.6 in. (24.1 x 25.7 x 19.3 cm)
1-channel pipette station dimensions (W x L x H)	4.9 x 6.6 x 5.0 in. (12.4 x 16.8 x 12.7 cm)
8-channel pipette station dimensions (W x L x H)	5.2 x 8.9 x 4.8 in. (13.2 x 22.6 x 12.2 cm)
Device weight	10.1 lb (4.6 kg)
Built-in features	Touchscreen (800 x 600 pixels), digital display

Ordering information

Neon NxT kits with 1-channel tubes		10 µL		100 µL	
Item	Cat. No. N1025 (50 reactions)	Cat. No. N1096 (192 reactions)	Cat. No. N10025 (50 reactions)	Cat. No. N10096 (192 reactions)	
Tips and tubes kit	Cat. No. N1025K	Cat. No. N1096K	Cat. No. N10025K	Cat. No. N10096K	
Neon NxT tips*	25 tips (10 µL)	96 tips (10 µL)	25 tips (100 µL)	96 tips (100 µL)	
Neon NxT 1-channel tubes	8 tubes	32 tubes	8 tubes	32 tubes	
Buffer kit	Cat. No. N1025B	Cat. No. N1096B	Cat. No. N10025B	Cat. No. N10096B	
Resuspension Genome Editing Buffer	1 mL	4 x 1 mL	10 mL	4 x 10 mL	
Resuspension R Buffer	1 mL	4 x 1 mL	10 mL	4 x 10 mL	
Resuspension T Buffer	1 mL	4 x 1 mL	10 mL	4 x 10 mL	
Electrolytic E10 Buffer	50 mL	2 x 100 mL	–	–	
Electrolytic E100 Buffer	–	–	50 mL	2 x 100 mL	
Neon NxT kits with 8-channel tubes		10 µL		100 µL	
Item	Cat. No. N1096-8 (192 reactions)	Cat. No. N10384-8 (768 reactions)	Cat. No. N10096-8 (192 reactions)	Cat. No. N100384-8 (768 reactions)	
Tips and tubes kit	Cat. No. N1096K8	Cat. No. N10384K8	Cat. No. N10096K8	Cat. No. N100384K8	
Neon NxT tips*	96 tips (10 µL)	384 tips (10 µL)	96 tips (100 µL)	384 tips (100 µL)	
Neon NxT 8-channel tubes	4 tubes	16 tubes	4 tubes	16 tubes	
Buffer kit	Cat. No. N1096B	Cat. No. N10384B	Cat. No. N10096B	Cat. No. N100384B	
Resuspension R Buffer	4 x 1 mL	2 x 10 mL	4 x 10 mL	2 x 80 mL	
Resuspension T Buffer	4 x 1 mL	2 x 10 mL	4 x 10 mL	2 x 80 mL	
Resuspension Genome Editing Buffer	4 x 1 mL	2 x 10 mL	4 x 10 mL	2 x 80 mL	
Electrolytic E10 Buffer	2 x 100 mL	4 x 200 mL	–	–	
Electrolytic E100 Buffer	–	–	2 x 100 mL	4 x 200 mL	

* To avoid carry-over contamination, we recommend using a Neon NxT pipette tip no more than twice.

 For more information, go to thermofisher.com/neonnxt

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