Neon™ NxT Electroporation System

QUICK REFERENCE Pub. Part No. 100119315 Rev. B

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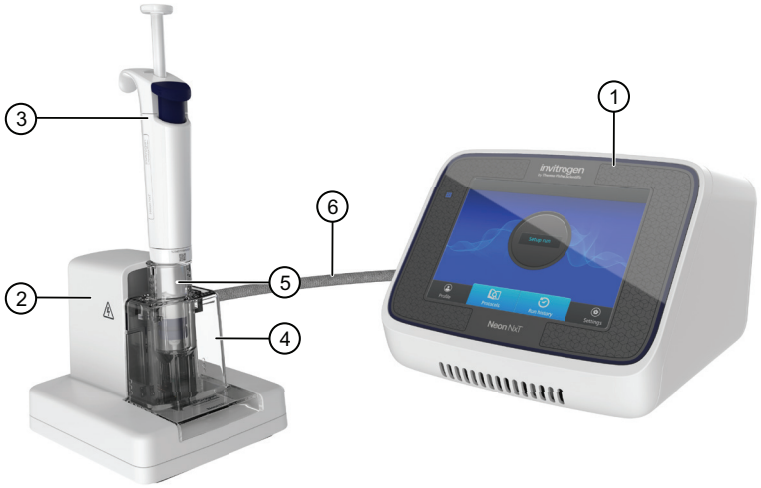
Contents

Product	Cat. No.
Neon™ NxT Electroporation System	NEON1S
Neon™ NxT Electroporation System Starter Kit	NEON1SK

Product description

The Neon™ NxT Electroporation System is a benchtop electroporation device that employs an electroporation technology which uses a pipette tip as an electroporation chamber to efficiently transfect mammalian cells including primary and immortalized hematopoietic cells, stem cells, and primary cells. The system efficiently delivers nucleic acids, proteins, and siRNA into all mammalian cell types including primary and stem cells with a high cell survival rate. The transfection is performed using as few as 1×10^4 or as many as 1×10^7 cells per reaction in a volume of 10 µL or 100 µL for a variety of cell culture formats (60 mm, 6-well, 48-well, 24-well, and 96-well).



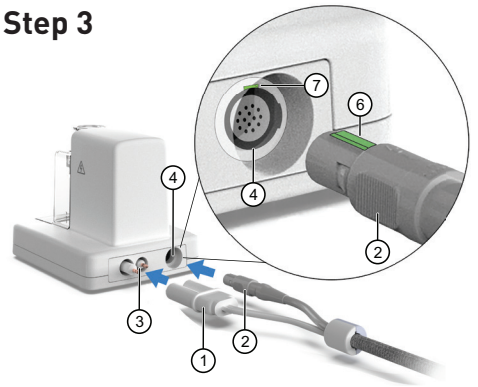
Neon™ NxT Electroporation System

1. Neon™ NxT device
2. Neon™ NxT Pipette Station
3. Neon™ NxT Pipette
4. Tube chamber for Neon™ NxT Tube
5. Neon™ NxT Tube
6. Connector cable

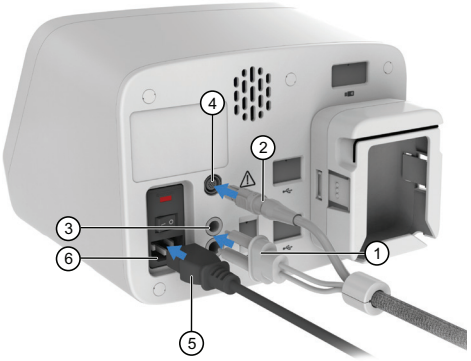
Instrument setup

1. Place the Neon™ NxT device on a level surface. Keep the area around the unit clear for proper ventilation.
2. Place the Neon™ NxT Pipette Station near the Neon™ NxT device.
3. Connect the high voltage ① and low voltage ② interface connectors on the cable to the high voltage ③ and low voltage ④ interface ports at the rear of the Neon™ NxT Pipette Station.
   Note: Ensure the notch ⑥ on the low voltage connector ② is aligned with the corresponding slot ⑦ on the low voltage port ④.
4. Connect the high voltage ① and low voltage ② interface connectors on the cable to the high voltage ③ and low voltage ④ interface ports at the rear of the Neon™ NxT device.
   Note: Ensure the notch on the low voltage connector is properly aligned with the low voltage port.
5. Ensure the AC power switch is in the **Off** position.
6. Attach the power cord ⑤ to the AC inlet ⑥ at the rear of the Neon™ NxT device, then plug the cord into an electrical outlet.

Step 3



Step 4–6



Online resources

- Scan the QR code for videos on how to use the Neon™ NxT pipette, set up the system, and other FAQs.
- Visit thermofisher.com/neonnxt for manuals, safety, and additional product information.
- For support, visit thermofisher.com/support.

For Research Use Only. Not for use in diagnostic procedures.

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Symbol	Action
Calculate electroporation volumes	
 **Cell count calculator**	a. Select **Cell count calculator** b. Enter the experimental parameters c. Select **Calculate**
Create a protocol	
 **Quick run**	a. Select **Set up run > Quick run** b. Enter the electroporation parameters c. Select **Save protocol**
Create a plate map	
 **Create plate**	a. Select **Set up run > Create plate** b. Select plate type (6, 12, 24, or 96-well) c. Select run order (top to bottom/by order of increasing voltage) d. Select wells and assign protocols e. Select **Save plate**
Edit a plate map	
 **Open plate**	a. Select **Set up run > Open plate** b. Select the protocol to modify c. Select wells and assign protocols d. Select **Save plate**
Open a protocol or plate map	
 **Library**	a. Select **Library > Protocol Library** or **Plate Library** b. Select a protocol or plate map

Symbol	Function
Open Sign in screen	
 **Sign in**	Select **Sign in** to log in to the instrument Provides access to the following items: ▪ Create user profile ▪ Change PIN ▪ Manage user profiles (Administrator only)
Open Settings screen	
 **Settings**	Select **Settings** Provides access to the following items: ▪ About instrument ▪ EULA ▪ Check updates ▪ Instrument settings ▪ Instrument name ▪ Date & time ▪ Sleep mode ▪ Brightness ▪ Network configuration ▪ Cloud region ▪ Auto sign out ▪ Maintenance & services ▪ Software update ▪ Self verification test ▪ Export instrument log ▪ Restore factory settings ▪ Run history ▪ Export run report ▪ Delete run report

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For support, visit **thermofisher.com/support**.

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