

# Meet our transfection product family

## **Invitrogen™ Neon™ NxT Electroporation System**

Designed to help make transfecting challenging cell lines easy, save precious research time, and reduce the risk of sample loss and contamination.

- Streamline your cell line needs with a single buffer kit
- Follow a 3-step process that removes the cuvette and related pipetting
- Place the instrument within the hood with ease due to its compact size
- Enjoy the flexibility to optimize parameters and save protocols

Request a demo at [thermofisher.com/neonnxt](https://thermofisher.com/neonnxt)

## **Invitrogen™ Lipofectamine™ 3000 Transfection Reagent**

Designed for exceptional DNA delivery efficiency into hard-to-transfect, primary, and cancer cell lines.

- A customizable formulation that is easily optimizable for the exact needs of specific cell types enabled by the combination of Lipofectamine 3000 reagent and the Invitrogen™ P3000™ Enhancer Reagent
- Requires a smaller volume of reagent per reaction, and eliminates the need for multiple transfection experiments, which can result in a 10-fold higher efficiency for difficult cells

[thermofisher.com/3000](https://thermofisher.com/3000)

## **Invitrogen™ Lipofectamine™ 2000 Transfection Reagent**

Strong performance delivering DNA in a broad range of workhorse cell lines.

- The most cited DNA reagent in scientific literature
- Strong performance with cell lines that are easy to transfect and those of medium difficulty to transfect

[thermofisher.com/2000](https://thermofisher.com/2000)

## **Invitrogen™ Lipofectamine™ RNAiMAX Transfection Reagent**

The first lipid-mediated reagent for siRNA delivery.

- Effectively provides maximum knockdown with less siRNA and low cytotoxicity
- Works versatily across a wide range of cell types
- Ideal for high-throughput siRNA transfections

[thermofisher.com/rnaimax](https://thermofisher.com/rnaimax)

## **Invitrogen™ Lipofectamine™ MessengerMAX™ Transfection Reagent**

Optimized for transfection of primary cells and neurons.

- Impressive mRNA delivery performance with >60% transfection efficiency in neurons and primary cells
- Fast protein expression with no risk of genomic integration with mRNA-based transfection

[thermofisher.com/messengermax](https://thermofisher.com/messengermax)

## **Invitrogen™ Lipofectamine™ CRISPRMAX™ Cas9 Transfection Reagent**

First transfection reagent optimized for CRISPR-Cas9 RNP delivery.

- Tested in over 20 cell types, including iPSCs, mouse ESCs, N2A, CHO, A549, HCT116, HeLa, and HEK293
- Gentler on cells than electroporation, with high-throughput compatibility
- Able to provide up to 85% cleavage efficiency

[thermofisher.com/crisprmax](https://thermofisher.com/crisprmax)

## **Invitrogen™ Lipofectamine™ Stem Transfection Reagent**

Designed for the most difficult stem cell assays.

- Achieve up to 80% transfection efficiency in PSCs and NSCs and up to 45% in MSCs
- Delivers low toxicity and continues cell proliferation without inducing differentiation

[thermofisher.com/lipofectaminestem](https://thermofisher.com/lipofectaminestem)

## **Invitrogen™ InvivoFectamine™ 3.0 Reagent**









*In vivo* transfection reagent optimized for RNAi delivery.

- Impressive results with up to 85% knockdown achieved using microgram levels of siRNA
- Use up to 90% less siRNA than required with previous reagents for efficient, effective knockdown

[thermofisher.com/invivoFectamine](https://thermofisher.com/invivoFectamine)

## Transfection product family selection guide

Transfection solutions for DNA, RNA, mRNA, and protein delivery, providing a range of options to best suit your transfection experiment. Use the figure below to find the optimal solution for your cell line type.

Product								
	Neon NxT Electroporation System	Lipofectamine 3000 reagent	Lipofectamine 2000 reagent	Lipofectamine RNAiMAX reagent	Lipofectamine MessengerMax reagent	Lipofectamine CRISPRMAX reagent	Lipofectamine Stem reagent	InvivoFectamine reagent
Cell type	Workhorse	Workhorse	Workhorse	Workhorse	Workhorse	Workhorse		
	Hard-to-transfect	Hard-to-transfect		Hard-to-transfect	Hard-to-transfect	Hard-to-transfect		
	Primary	Primary		Primary	Primary	Primary		
	Stem	Stem		Stem	Stem		Stem	
Payload	DNA	DNA	DNA				DNA	
	siRNA or miRNA			siRNA or miRNA			siRNA or miRNA	siRNA or miRNA
	mRNA				mRNA		mRNA	
	CRISPR-Cas9 RNP					CRISPR-Cas9 RNP	CRISPR-Cas9 RNP	
	Antibody							
Delivery		Cotransfection	Cotransfection					
				<i>In vitro</i>				<i>In vivo</i>

Find out more information at [thermofisher.com/transfection](https://thermofisher.com/transfection)

**invitrogen**