Lipofectamine® 2000 Reagent



Package Contents

Catalog Number

Size

- **1**1668-030 0.3 mL vial **1**1668-027 0.75 mL vial
- 11668-019 1.5 mL vial
- **11668-500** 15 mL vial



Storage Conditions

Store at 4°C (do not freeze).



Required Materials

- Plasmid DNA (0.5–5 μg/μL stock)
- Opti-MEM[®] Reduced Serum Medium
- Eppendorf tubes



Timing

Preparation: 10 minutes Incubation: 5 minutes Final Incubation: 1–3 days



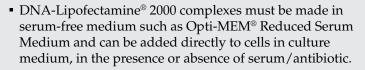
Lipofectamine® Reagents

Go online to view related products.



Product **Description**

 Lipofectamine® 2000 Reagent is a proprietary formulation for transfecting nucleic acids into a wide range of eukaryotic cells.





Important Guidelines

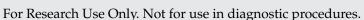
- It is not necessary to remove complexes or change/add medium after transfection.
- The amount of Lipofectamine[®] 2000 Reagent required for successful transfection varies depending on the cell type and passage number. Start any new transfection by testing the recommended four concentrations of Lipofectamine® 2000 Reagent to determine an optimum amount.



Online Resources

Visit our product page for additional information and protocols. For support, visit www.lifetechnologies.com/support.







Protocol Outline

- A. Plate cells so they will be 70–90% confluent at the time of transfection.
- B. Prepare plasmid DNA-lipid complexes.
- C. Add DNA-lipid complexes to cells.

Lipofectamine® 2000 DNA Transfection Reagent Protocol

? See page 2 to view a typical DNA transfection procedure.

Component	96-well	24-well	6-well
Final DNA per well	100 ng	500 ng	2500 ng
Final Lipofectamine® 2000 Reagent per well	0.2–0.5 μL	1.0–2.5 μL	5.0–12.5 μL

Co-Transfection of Plasmid DNA and siRNA

Transfect plasmid DNA and siRNA at the same time using Lipofectamine[®] 2000 Reagent by adding 30 pmol (~0.6 µg) of siRNA per 1 µg of DNA.

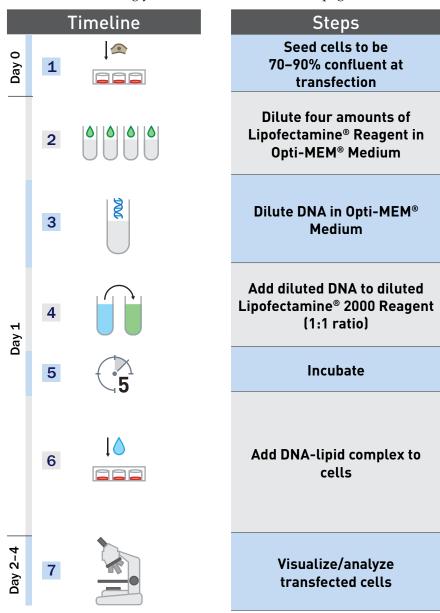
mRNA Transfection

mRNA can be transfected in a 24-well plate using Lipofectamine® 2000 Reagent by adding 0.5–1 µg of mRNA per well.

- Photograph of Expected Results
- **f** Scaling Up or Down Transfections
- 1 Limited Product Warranty and Disclaimer Details

Lipofectamine® 2000 DNA Transfection Reagent Protocol

Transfect cells according to the following chart. Volumes are given on a per-well basis. **Each reaction mix is sufficient for triplicate (96-well), duplicate (24-well), and single well (6-well) transfections, and accounts for pipetting variations.** Adjust the amounts of components according to your tissue culture format. For additional information on scaling your transfection reaction, see page 1.



Procedure Details				
Component	96-well	24-well	6-well	
Adherent cells	$1-4 \times 10^4$	$0.5 - 2 \times 10^5$	$0.25-1 \times 10^6$	
Opti-MEM® Medium	$25 \mu L \times 4$	50 μL × 4	150 μL × 4	
Lipofectamine® 2000 Reagent	1 , 1.5, 2, 2.5 μL	1 2, 3, 4, 5 μL	1 6, 9, 12, 15 μL	
Opti-MEM® Medium	125 μL	250 μL	700 μL	
DNA (0.5–5 μg/μL)	2.5 µg	5 µg	14 μg	
Diluted DNA Total	25 μL	50 μL	150 µL	
Diluted Lipofectamine® 2000 Reagent	25 μL	50 μL	150 μL	
Incubate for 5 minutes at room temperature.				
Component	96-well	24-well	6-well	
DNA-lipid complex per well	10 μL	50 μL	250 μL	
Final DNA used per well	100 ng	500 ng	2500 ng	
Final Lipofectamine® 2000 Reagent used per well	0.2–0.5 μL	1.0–2.5 μL	5.0–12.5 μL	
Incubate cells for 1–3 days at 37°C. Then analyze transfected cells.				