

# M5 Hiper Lipo2500 Transfection Reagent

## 使用说明书

产品名称	单位	货号
M5 Hiper Lipo2500 Transfection Reagent	0.75 ml	MF135-plus-01
M5 Hiper Lipo2500 Transfection Reagent	1.5 ml	MF135-plus-02

### 【储存条件】

长期保存，请置于 4°C (切勿结冰冻住)。

### 【产品简介】

M5 Hiper Lipo2500 Transfection Reagent is a proprietary formulation for transfecting nucleic acids into a wide range of eukaryotic cells. DNA-Lipo 2500 complexes must be made in serum-free medium such as Opti-MEM® Reduced Serum Medium and can be added directly to cells in culture medium, in the presence or absence of serum/antibiotic. It is not necessary to remove complexes or change/add medium after transfection. The amount of Lipo 2500 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 Lipo2500 Reagent to determine an optimum amount.

### 【产品组分】

	MF135-plus-01	MF135-plus-02
M5 Hiper Lipo2500 Transfection Reagent	0.75 ml	1.5 ml

### 【实验前准备】

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

### 【操作步骤】

#### A、Lipo2500 DNA Transfection Reagent Protocol (具体方法见后面)

Component	96-well	24-well	6-well
Final DNA per well	100 ng	500 ng	2500 ng
Final Lipo2500 Reagent per well	0.2–0.5 $\mu$ L	1.0–2.5 $\mu$ L	5.0–12.5 $\mu$ L

#### B、Co-Transfection of Plasmid DNA and siRNA

Transfect plasmid DNA and siRNA at the same time using Lipo2500 Reagent by adding 30 pmol (~0.6  $\mu$ g) of siRNA per 1  $\mu$ g of DNA.

#### C、mRNA Transfection

mRNA can be transfected in a 24-well plate using Lipo2500 Reagent by adding 0.5–1  $\mu$ g of mRNA per well.

**D、Lipo 2500 DNA Transfection Reagent Protocol (具体方法)**

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.

(Lip2500 使用方法和 Lip2000 完全一样, 但是效率更高, 对细胞毒性更小)

Timeline		Steps	Procedure Details			
Day 0	1	Seed cells to be 70-90% confluent at transfection	Component	96-well	24-well	6-well
	2	Dilute four amounts of Lipo2000 Reagent in Opti-MEM® Medium	Adherent cells	1-4 × 10 <sup>4</sup>	0.5-2 × 10 <sup>5</sup>	0.25-1 × 10 <sup>6</sup>
Day 1	3	Dilute DNA in Opti-MEM® Medium	Opti-MEM® Medium	25 µL × 4	50 µL × 4	150 µL × 4
	4	Add diluted DNA to diluted Lipo 2000 Reagent (1:1 ratio)	Lipo2000 Reagent	1, 1.5, 2, 2.5 µL	2, 3, 4, 5 µL	6, 9, 12, 15 µL
	5	Incubate	Opti-MEM® Medium	125 µL	250 µL	700 µL
	6	Add DNA-lipid complex to cells	DNA (0.5-5 µg/µL)	2.5 µg	5 µg	14 µg
	7	Visualize/analyze transfected cells	Diluted DNA Total	25 µL	50 µL	150 µL
Day 2-4			Diluted Lipo 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 Lipo 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.			

**【备注】**

本产品仅供科研使用。在确认产品质量出现问题时, 本公司承诺为客户免费更换等量的质量合格产品。