

Transfection Reagent

Cat. #: [AMS.P901](#) (1 mL); [AMS.901S](#) (0.1 mL)

Storage: 4°C

Shelf life: 6 months

Product Description (This product is for research use only)

Our Transfection Reagent is a **unique nanoparticles** reagent that delivers more DNA and siRNA to cells than other lipid-based transfection kits.

- ✓ **No media changes** needed
- ✓ **Antibiotics and serum compatible** – no need to remove
- ✓ **One-step** incubation - 15 minutes
- ✓ Work on **most cell types**

Reagent required not provided in this kit: serum-free DMEM with High Glucose

Positive control: human embryonic kidney 293T cells

Table 1. Suggested Reaction Matrix

Culture Dish	Area (cm ²)	Cell Number	Medium (mL)	DNA (µg)	Transfection Reagent (µL)	DMEM (µL)
96-Well	0.2	1.4 x 10 ⁴	0.13	0.1	0.3	10
48-Well	1	7.5 x 10 ⁴	0.25	0.25	0.75	20
24-Well	2	1.5 x 10 ⁵	0.50	0.5	1.5	50
12-Well	4	3.0 x 10 ⁵	1.0	1	3	100
6-Well /35 mm	10	9.0 x 10 ⁵	2.0	2.5	7.55	200
60 mm / T25	25	2.5 x 10 ⁶	5.0	6-8	15-24	300
100 mm / T75	75	5.0 x 10 ⁶	10	15-20	35-45	500
150 mm /T150	150	15 x 10 ⁶	20	25-30	60-80	1000

Note:

For different cell type, the seeding cell density may vary. Customer should test the seeding condition to ensure the 70 ~ 80% confluency at the time of transfection. The transfection efficiency also depend on the cell type. For difficult-to-be-transfected cells, customer can try to increase the Transfection reagent volume up to 4 µl per µg of DNA.

Protocol (example of transfecting HEK293 cells in **one well of 24-well plate**. Refer to Table 1 for other plates or dishes)

Notice: Transfect cells at **70-80% confluency** to achieve high transfection efficiency and low toxicity.

- Plating:** seed the cells **18 to 24 hours** prior to transfection in 24-well plate, at the density that allow the cells reaches 70~80% confluency at the time of transfection.
- Change medium: 2 hours before** transfection, remove culture medium and add **0.5 mL fresh** complete culture medium. (No need to use serum-free / antibiotics-free medium.)
- In **tube 1** add: **0.5 µg DNA**
50 µL DMEM (serum-free, High Glucose)
Pipet up and down to mix well
- In **tube 2** Add: **1.5 µL Transfection Reagent**
50 µL DMEM (serum-free, High Glucose)
Gently pipet up and down to mix well
- Incubate at room temperature (20–25°C) for 3 min.
- Transfer the mixture in **tube 2** into **tube 1**. Then **Vortex tube 1** for **10 seconds**.
- Incubate tube 1 for **15 minutes** at **room temperature**.
- After incubation, add the incubated mixture **drop-wise** to the cells, and homogenize by **gently swirling** the plate.
- Put the cells back to cell incubator.
- Check transfection efficiency 24 to 48 hours post transfection.

-- The end --

Customer also buy:

DNA Extraction / PCR	Cat. #	Feature
1-Drop PCR Mix (squeeze 1 drop do PCR, no pipetting)	W2599-5	squeeze bottle makes PCR easier
Plasmid Miniprep	W0500-50	40 % below market price
Endotoxin-Free Plasmid Maxiprep	W2104-10	40 % below market price
Plasmid 96 Miniprep (4 x 96 rxn)	W0506-496	50 % below market price
2x Gold Master Mix (with dyes, hot start, HiFi)	W0655-5	25 % below market price

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