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	1.4×10^4	0.13	0.1	0.3	10
48-Well	1	7.5×10^4	0.25	0.25	0.75	20
24 Well	2	1.5×10^5	0.50	0.5	1.5	50
12-Well	4	3.0×10^5	1.0	1	3	100
6 Well /35 mm	10	9.0×10^5	2.0	2.5	7.55	200
60 mm / T25	25	2.5×10^6	5.0	6-8	15-24	300
100 mm / T75	75	5.0×10^6	10	15 20	35 45	500
150 mm /T150	150	15×10^6	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.

AMSBIO | www.amsbio.com | info@amsbio.com

UK & Rest of the World
184 Park Drive, Milton Park
Abingdon OX14 4SE, UK
T: +44 (0)1235 828 200
F: +44 (0) 1235 820 482

North America
1035 Cambridge Street,
Cambridge, MA 02141
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

Germany
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880

Switzerland
Centro Nord-Sud 2E
CH-6934 Bioggio-Lugano
T: +41(0) 91 604 55 22
F: +41(0) 91 605 17 85

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.

1. **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.
2. **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.)
3. In tube 1 add: 0.5 µg DNA
   50 µL DMEM (serum-free, High Glucose)
   Pipet up and down to mix well
4. In tube 2 Add: 1.5 µL Transfection Reagent
   50 µL DMEM (serum-free, High Glucose)
   Gently pipet up and down to mix well
5. Incubate at room temperature (20–25°C) for 3 min.
6. Transfer the mixture in tube 2 into tube 1. Then **Vortex** tube 1 for **10 seconds**.
7. Incubate tube 1 for **15 minutes** at **room temperature**.
8. After incubation, add the incubated mixture **drop-wise** to the cells, and homogenize by **gently swirling** the plate.
9. Put the cells back to cell incubator.
10. Check transfection efficiency 24 to 48 hours post transfection.

Customer also buy: -- The end –

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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F: +41(0) 91 605 17 85