Tribioscience

# TransReagent Maxi (TBS8042)

Highly Efficient DNA Transfection Reagent

| Catalog | Unit Size |
|---|---|
| TBS8042-01 | 1 mL |
| TBS8042-05 | 5 mL |
| TBS8042-10 | 10 mL |

## DESCRIPTION

TransReagent Maxi is a polymer-based reagent without animal derivers. It has high-efficiency, low-toxicity, strong-stability, and is suitable for many cell types including suspension cells, such as HEK-293, HEK-293T, CHO-K1, expi293, expiCHO, COS-1, COS-7, NIH/3T3, Sf9, HepG2, and other cells. It can also be applied to large-scale recombinant protein expression and virus production.

## APPLICATION

DNA transfection

## KIT SIZE

| Kit Part | TBS8042-01 | TBS8042-05 | TBS8042-10 |
|---|---|---|---|
| TransReagent Maxi | 1 mL | 5 mL | 10 mL |
| TransReagent Enhancer | 0.5 mL | 1 mL | 5 mL |

## STORAGE

Store TransReagent at 4°C for 2 years.
Store Transfection Enhancer at -20°C for 2 years.

## PROTOCOL

1. Seed cells at 2.5 x 10^6 in one 10cm dish in 15 ml DMEM complete medium at 37°C, 5% CO2 for ~ 20 hours for ~ 80% cell confluence.
2. Transfection Preparation: The volume of final transfection medium can be up to 10% of the total volume of cell culture medium. Equal volumes are used for DNA and the TransReagent dilutions. Plasmid DNA (ug) and TransReagent ratio =1:1-1:3. The different ratios are listed in Table 1.

Table 1: Different Ratio of DNA and Transfection Reagent Maxi

| Ratio of DNA: TransReagent Maxi | ug of DNA | µL of TransReagent Maxi |
|---|---|---|
| 1:1 | 7.5 | 7.5 |
| 1:2 | 7.5 | 15.0 |
| 1:3 | 7.5 | 22.5 |

For example, Plasmid DNA and TransReagent ratio=1:3. 7.5ug plasmid DNA and 22.5 µL of TransReagent are used for one 10 cm petri dish. In this case, 500 µL DNA dilution (plasmid DNA volume plus OptiPro SFM medium) and 500 µL TransReagent dilution (22.5 µL TransReagent plus OptiPro SFM medium) need be prepared as below.

3. Dilute plasmid DNA into OptiPro SFM medium in the total volume of 500 µL. Then mix by swirling or inversion.
4. Add an indicated volume of TransReagent into OptiPro SFM in the total volume of 500 µL. Then mix by swirling or inversion.
5. Incubate the mixtures for 5 min at room temperature.
6. Gently add the diluted TransReagent (500 µL) into the diluted DNA (500 µL) in dropwise manner and flicking the diluted DNA tube.
7. Incubate the mixture for 15-20 min at room temperature.
8. Carefully transfer the transfection mixture to the cells in a dropwise manner and gently shaking the dish to avoid dislodging the cells and make all cells contact the transfecting DNA evenly.
9. Incubate the cells for 18 hours at the regular cell culture conditions. Add 100 µL of the Transfection Enhancer into the culture medium.
10. Harvested the cells if target protein expresses in cells or medium supernatant if secreting protein is expressed at 3-4 days post transfection when vital cells are lower than 50%.

## RELATED PRODUCTS

DH5α Competent Cell (TBS8041)
DH10 Competent Cell (TBS8043)
BL21 Competent Cell (TBS8044)
Stable Competent Cell (TBS8045)
MCF-7 Cell Complete Medium (TBS8036)
DMEM Medium (TBS8061)
RPMI-1640 (TBS8063)
0.1% Gelatin Solution (TBS8004)
2x HBS, pH7.05 (TBS5076)
LB Medium (TBS8056)
SOB Medium (TBS8057)
SOC Broth Medium (TBS8058)
2xYT Broth Medium (TBS8059)

**Research Use Only**