



## Product Information & Manual

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### HyFect<sup>®</sup> DNA Transfection Reagent

Cat no. LDG0001RA

#### Product Overview

##### Package component

Item	Content
HyFect <sup>®</sup> Transfection Reagent	250 µL
HyFect <sup>®</sup> Transfection Reagent	500 µL

#### Description

HyFect<sup>®</sup> DNA Transfection Reagent is a low cell toxicity and non-liposome reagent optimized for DNA delivery. It provides effectively, reproducibly, and affordable benefits for scientific research.

#### Storage and Stability

- (1) Stored at -20°C.
- (2) All reagents are stable for one year under proper storage conditions.

#### Procedure

##### Standard RNA synthesis procedures:

- (1) Cell preparation: Cells should be seeded before 16 to 20 hours prior to transfection with around 70% confluence. The medium should be refreshed 30 minutes before transfection. Usually, culture medium with serum does not affect transfection.
- (2) DNA preparation: DNA plasmid for transfection should be with high purity (A260/A280=1.8-1.9) to ensure efficient transfection mixture preparation.
- (3) Mixture preparation: Guideline of DNA plasmid and HyFect<sup>®</sup> DNA Transfection Reagent amount and ratio refer to table 1. In brief, plasmid and transfection

reagent are diluted in serum-free culture medium for 5 minutes then mixed together and tip gently for another 25 minutes.

- (4) Transfection: Add mixtures into cell culture dish/plate. The mixture could be removed after 6 to 48 hours and refilled with culture medium.

##### Recommended formula of transfection mixture

Culture Dish/Plate	Medium Volume	Plasmid / Serum-free medium	HyFect <sup>®</sup> DNA Transfection Reagent / Serum-free medium
96-well	100 µL	250 ng / 10 µL	0.75 µL / 10 µL
24-well	500 µL	500 ng / 25 µL	1.5 µL / 25 µL
12-well	700 µL	750 ng / 35 µL	2.25 µL / 35µL
6-well	1 mL	1 µg / 50 µL	3 µL / 50 µL
6 cm	3 mL	2.5 µg / 150 µL	7.5 µL / 150 µL
10 cm	6 mL	5 µg / 300 µL	15 µL / 300 µL

#### Important notes

- (1) HyFect<sup>®</sup> DNA Transfection Reagent is recommended for use with Gibco™ Opti-MEM™ I Reduced-Serum Medium or Gibco™ OptiPRO™ SFM for alternative optimizing transfection efficiency.

#### Disclaimer

This product is for research use only and is not intended for diagnostic use

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