

BPfectin Transfection Reagent

Cat. # TF-1157

For Research Use Only

Description

BPfectin Transfection Reagent is a specially designed and synthesized cationic polymer formulation which offers extremely high transfection efficiencies of 293 suspension cells in serum-free CD 293 TGE Medium. It is available separately or as part of the Power 293 Expression System.

BPfectin Transfection Reagent can be used as transfection reagent for DNA delivery to different cell lines including HEK293, CHO-K1, 3T3, A549 and Hela cells. The proprietary formulation of the transfection reagent enable ultra-low cytotoxicity to cells post transfection and compatible with serum. It is suitable for academic research, stable transfection and transient expression production. Detailed transfection protocols on your application may vary and needs to be developed.

Product Features

Support high efficient transfection of mammalian cells in suspension and adherent culture
 Ultra low cytotoxicity versus competitive alternatives and conventional cationic polymers
 Scalable from culture plate to large scale stirred bioreactor
 Ultra stable and long shelf life
 Chemically define and regulatory friendly

General Specification

Product Classification		Cell Type	Regulatory Statement	Shelf Life
Chemically Defined, Animal Origin-Free		Established Cell Lines	For Research Use Only	12 months
Catalog #	Name of Product	Product Size	Storage	Shipping
TF-1157-1.5mL	BPfectin Transfection Reagent	1.5mL	at -20°C	2-8°C
TF-1157-15mL	BPfectin Transfection Reagent	15mL	at -20°C	2-8°C

Usage Protocol:

Table 1:Ratio for transfection complexes formation

Plasmid for Transfection	293 Expression MAX-1	BPfectin	293 Culture
10µg	4µL	30µL	10 million cells

- Before transfection, passage 293 cells in CD 293 TGE medium for at least 3 passages from adaptation procedure or cell bank vial at seeding density greater than 0.3 million cells per mL. Shaker at 150rpm to 180 rpm depending on your orbit shaker design and single cell distribution status.
- Seed 293 cells at 0.5 million cells per mL in pre-warmed fresh medium, grow the cells to 1.5 to 2.2 million cells per mL and dilute the culture with fresh medium to 0.8 to 1.0 million cells per mL depending on whether the cells can grow to density greater than 1.5 million per mL by next day.
- Grow the cells for 24 hours or less to 1.5 to 2 million cells per mL (NOT greater than 2.0 million cells) and perform transfection.
- Use 150mM NaCl sterile solution to dilute DNA plasmid and add 293 expression MAX-1 according separate manual add BPfectin at ration of 3µL:1µg(BPfectin:DNA) drop wise to DNA solution and vortex for 3 min; drop-DNA dosage for transfection is 1µg per 1 million cells in culture, and volume of DNA-BPfectin complexes is 5% of culture to be transfected.
- Incubate the complexes at RT for 10min before transfection.
- Add DNA transfection complexes drop-wise to cells at 5% volume ratio (e.g. 500µl to 10mL culture).
- 24 hours post transfection, add Feed X to culture at 10% volume ratio (e.g. 1mL to 10mL culture).
- Harvest for purification typically on 7 days post transfection or when cell viability drop below 55%.

Transfection Procedure

Dilute DNA with 150 mM NaCl



Add 293 Expression Max-1
and vertex



Add BPfectine drop-wise
to DNA



Vertex for 3 min



Incubate at RT for 10min



Transfection



24hpt, feed with
Feed X (10%)