

Lipotransfectin

CAT N° : SBM0959

Application : Transfection of nucleic acids into eukaryotic cells

Formulation : Cationic lipids with colipids in water

Assays : up to 1000 (24-well) or up to 300 (6-well) with 1 ml reagent

Sterility : tested

Cell Culture : tested

Storage conditions : < -15°C

Shelf life : 1 year

Quality control : Standard transfection assay. Absence of bacterial and fungal contamination is verified using thioglycolate medium.

Recommended use : Only for research purposes *in vitro*, not intended for human or animal diagnostic, therapeutic or other clinical uses.

Application :

Lipotransfectin is a highly advanced transfection reagent which sets new standards in eukaryotic cell transfection. In addition, its low cytotoxicity and freedom from serum inhibition make it suitable for a wide range of uses. Lipotransfectin is suitable for an almost unlimited range of uses, from highly efficient plasmid and bacmid transfections to siRNA transfection or high-throughput screening systems. Even unusual applications such as transfection of frog (*Xenopus*) and insect (*Plutella xylostella*, *Spodoptera exigua*, etc.) cells or bacmid transfections can be completed successfully.

Technical specifications :

Lipotransfectin guarantees high transfection efficiency for a large number of cell lines. Below is a table with some of the most used cell lines and the average of their percentages of minimum transfection efficiencies, of which Solmeglas has constancy:

CELL LINES	TRANSFECTION EFFICIENCY (%)
293-H, HEK293, HEK293T	99%
CHO, CHO-S, CHO-K1	90%
COS-7, COS-7L	60%
BE (2)C, BE(2)M17	53%
MDCK	60%
HTI1080	75%
HeLa	94%
PC12	30%

Important Guidelines :

1. Considering that the DNA quantities most commonly used, for 24 and 6 well plates, is usually 0.5 μ L to 2 μ L. With the 1.5 ml format it would be more than enough to perform 750 to 1000 transfections in the 24-well plates and 190 to 300 in the 6-well plates.
2. Lipotransfectin is used with a much simpler protocol compared to other similar agents of other brands. It can be used with presence or absence of serum in the culture medium, since these do not affect the efficacy of the product.
3. It also allows automated applications type "Highthroughput" in 9-well plates.
4. Optimization protocol available.

Storage :

Lipotransfectin will be provided to user at an ambient temperature. It is advisable to keep it at 4°C if it is going to be used regularly, otherwise it is advisable to store the product at -15°C to avoid the natural aging process of the liposomes; there are no signs of product degradation due to successive freezing and thawing.