



Europa Bioproducts Ltd

15-17 North Street • Wicken
Ely • Cambridgeshire • CB7 5XW
Tel: 0044 (0)1353-721118
Fax: 0044 (0)1353-624589

HilyMax

Item#	Unit Size
H357-10	1 ml x 1
H357-15	1 ml x 5
H357-20	1 ml x 10



Best Reagent for Cell Signalling Research

High Transfection Efficiency in Wide Variety of Cells

Optimized Protocol for Maximizing Transfection

Contents of the Kit:

H357-10: HilyMax reagent 1 vial, Lipoform buffer 1 ml x 1 vial

H357-15: HilyMax reagent 5 vials, Lipoform buffer 1 ml x 5 vials

H357-20: HilyMax reagent 10 vials, Lipoform buffer 1 ml x 10 vials

Storage: 0-5 °C

Shipping Condition: Ambient Temperature

Required Equipment and Materials

micro plate; 10 µl, 100-200 µl, and 1000 µl pipettes; micro tubes; CO₂ incubator

Description:

Various methods have been developed to express specific proteins in mammalian cells. The first method to introduce DNA to cells was calcium phosphate precipitation. However, the transfection efficiency was very poor and there was a high rate of cell-to-cell variation. The second method introduced was the DEAEsephadex method. The transfection efficiency drastically improved, but still the method could not be used for all cells and required heavy metal ions to enhance transfection efficiency. The cation liposome method was then developed, which proved to be a much better method to transfect DNA and RNA into cells. Other methods used are magnet bead, metal particle shoot, and electroporation. However, the cationic liposome method does not require any special instruments or special skill. Therefore, many researchers are using this method. HilyMax is a newly developed gene transfection reagent that forms a liposome to be used for highly efficient gene transfection to a wide variety of cells. In addition, in signal transduction research, HilyMax gives better signal because the reagent introduced in cells does not interrupt intracellular signal pathways (Fig. 3). Since serum in the growth medium does not interfere with the transfection using HilyMax, no exchange of the medium during the transfection is required. HilyMax does not contain biological components that might interfere with the transfection.

E.mail: info@europa-bioproducts.com

Web site: <http://www.europa-bioproducts.com>

Registered Office: 15-17 North Street, Wicken, Ely, Cambridgeshire CB7 5XW

Registered Number: 2703381



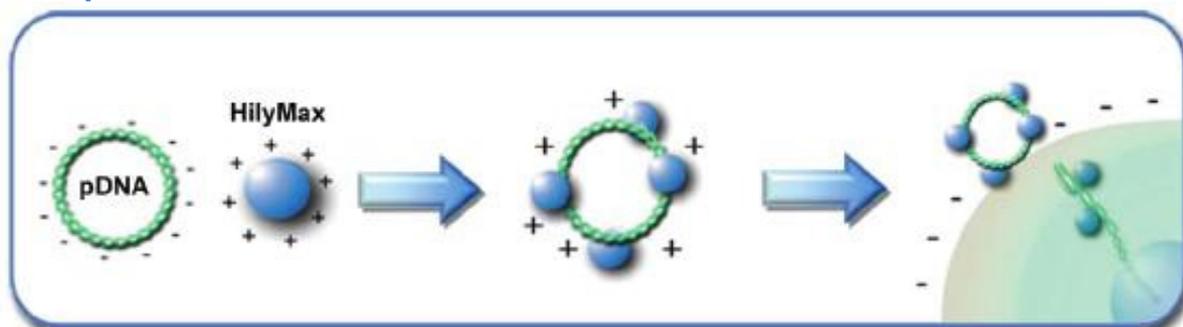
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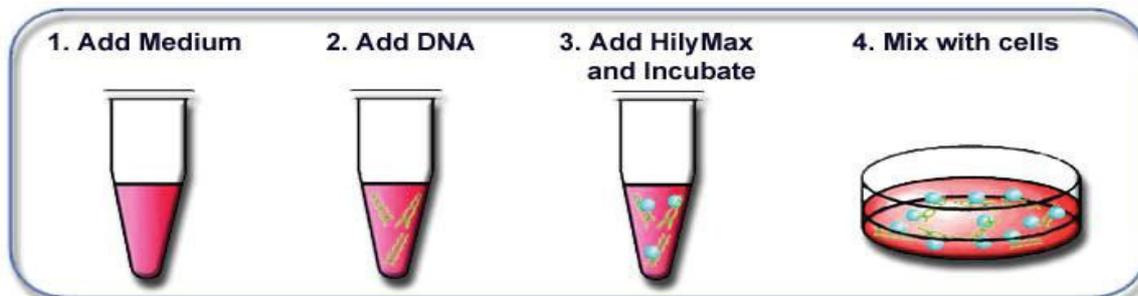
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Principle:



HilyMax readily interacts with DNA because cationic liposome(+) and anionic DNA(-) spontaneously form DNA-liposome complexes. The overall charge of DNA-HilyMax complex is positive, so that the DNA-HilyMax complex is electrostatically bound on an anionic cell surface and introduces DNA into the cell by endocytosis.

Procedure:



The procedure is extremely simple. No exchange of the media is required during the whole process, because serum in the medium does not interfere with the transfection.



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