



CarriGene® Plates

World's First Fast Transfection Plates for *In Vitro* Delivery of Plasmid DNA

Fast & Easy - A Transfection Revolution

- ▶ **Revolutionary Pre-Coated Plate Format Cuts Transfection Assay Time in Half**
No pre-seeding, no change of medium, entire transfection procedure is complete in only one overnight process.
- ▶ **Exceptional Transfection Efficiency in Common and Some Hard-to-Transfect Cell Lines**
Proven superior performance in a broad range of cells, including some difficult to transfect cells.
- ▶ **Unprecedented Low Toxicity**
Biodegradable polymer formulation is non-toxic to cells, resulting in market leading cell viability
- ▶ **Perfect for High Throughput Applications**
96-well format enables significant savings in time & labor, especially for High Throughput Screening
- ▶ **Superior Reliability**
Simplified process results in reduced human and systemic errors, delivering consistent, reliable results
- ▶ **Streamlined Inventory**
Stable for more than 12 months at room temperature. Store only the plates you need for less waste.

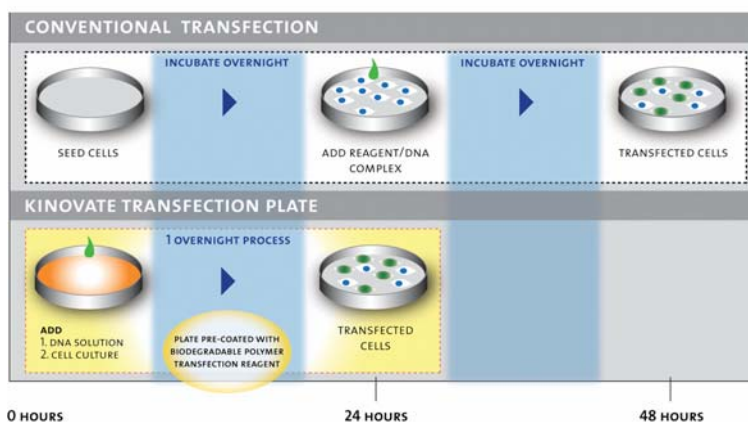


Figure 1. Simplified Protocol Using CarriGene® Plates

Product Overview

CarriGene® Plates are a truly groundbreaking, novel transfection technology. The first in the world of its kind, CarriGene® Plates are pre-coated with Kinovate's unique biodegradable cationic polymer reagent to deliver superior transfection efficiency with extremely low cytotoxicity. Best of all, by utilizing a reverse transfection protocol, CarriGene® Plates eliminate one overnight process from the transfection assay, meaning you get your results in just one day.

Figure 1. illustrates CarriGene® Plates' revolutionary process. Simply add your DNA solution to the coated plates surface, then add your cell culture last and the process is complete. Your results will be available next day, saving time, labor and speeding up your research. With CarriGene® Plates you won't have to let waiting for results interfere with your research again. CarriGene® Plates allow you to efficiently plan your experiments and will redefine the way you perform transfection.

Superior Transfection Efficiency

CarriGene® Plates work effectively to deliver plasmid DNA to a broad range of cell lines including a variety of both common and some difficult to transfect cells (see table right). In Figure 2. below, CarriGene® Plates showed superior transfection efficiency compared to the leading competitor in a broad range of cells, including HUV-EC.

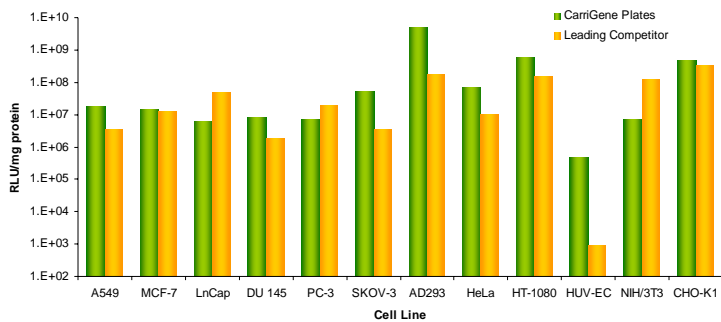


Figure 2. Results of a luciferase assay comparing CarriGene® Plates and market leading reagent A.

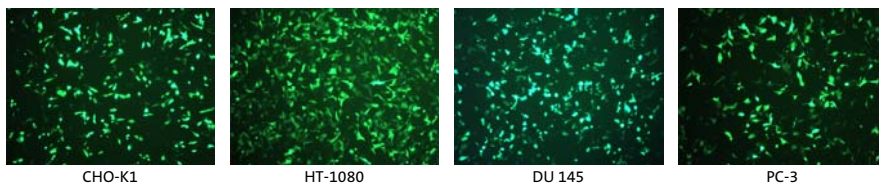


Figure 3. Fluorescent Images Of cells transfected with pEGFP 24-36 hours post-transfection.

Exceptionally Low Toxicity

CarriGene® Plates are pre-coated with Kinovate's proprietary biodegradable cationic polymer transfection reagent onto cell culture dishes of various well sizes. Once inside the cell, the polymer will biodegrade and facilitate efficient release of the DNA cargo. The biodegradation of the polymer will result in smaller non-toxic molecules, resulting in significantly improved cell viability.

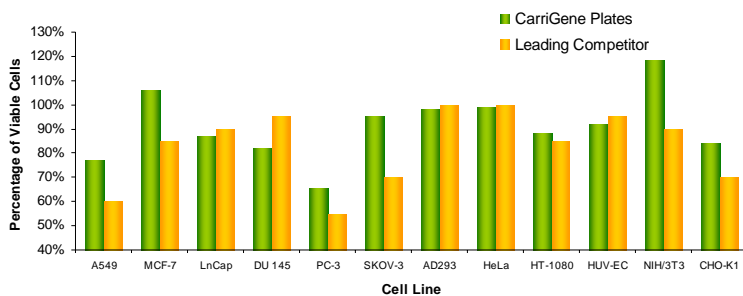


Figure 3. Results of an MTT assay comparing CarriGene® Plates and market leading reagent A.

List of Successfully Transfected Cells

208F	Rat; Fibroblast
293T	Human; Embryonic Kidney
A549	Human; Lung Carcinoma
AD293	Human; Embryonic Kidney
B16F0	Mouse; Skin Melanoma
B16F10	Mouse; Skin Melanoma
BT-20	Human; Breast Carcinoma
C6	Rat; Glioma Fibroblast
Caco2	Human; Colon Epithelial
CHO-K1	Hamster; Ovary
Cos7	Monkey; Kidney Fibroblast
DAOY	Human; Cerebellar Medullablastoma
DU 145	Human; Prostate Carcinoma
EL4	Mouse; Lymphoma
NCI-H1299	Human; Lung Carcinoma
HCT 116	Human; Colorectal Carcinoma
HEK293	Human; Embryonic Kidney
HeLa	Human; Cervical Carcinoma
HepG2	Human; Liver Tumor
HT-1080	Human; Fibrosarcoma
HUV-EC	Human; Umbilical Vein
ID8	Mouse; Ovarian Cancer
J82	Human; Urinary Bladder Carcinoma
LnCap	Human; Prostate Carcinoma
LS174T	Human; Colonic Adenocarcinoma
MCF-7	Human; Breast Adenocarcinoma
MDA-MB-231	Human; Mammary Gland Adenocarcinoma
MDA-MB-468	Human; Mammary Gland Adenocarcinoma
MDCK	Mouse; Normal Kidney Epithelial
MIA PaCa-2	Human; Pancreas Carcinoma
MS1	Mouse; Pancreas Endothelium
NCI-H460	Human; Lung Carcinoma
NIH/3T3	Mouse; Embryonic Fibroblast
PC-3	Human; Prostate Carcinoma
PtK2	Human; Normal Kidney
RPMI 1846	Hamster; Melanoma
SKOV-3	Human; Ovarian Adenocarcinoma
SVEC	Mouse; Endothelial
T24	Human; Urinary Bladder Carcinoma
U-2OS	Human; Osteosarcoma
WEHI	Mouse; Fibrosarcoma



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