

# CANFAST™

For a highly efficient, easy and non-toxic High-throughput transfection



## Ordering info:

Cat No.	Size
T0082-S	0.5 mL
T0082	1.5 mL
T0083	1 mL

(1.5 mL = 375-750 transfections)

## Include for 1.5 mL:

- 1.5 mL CANFAST™ Transfection Reagent (1 µg/µl)
- 15 µl GFP-Plasmid Transfection control (1 µg/µl)



## Description:

CANFAST™ is a highly efficient, ready-to-use and non-toxic new generation of cationic polymer. It has important features as DNA condensation and endosomal release, which improves gene transfection efficiency.

## Advantages & Features:

- ✓ **High transfection efficiency and reproducibility** in most common cell lines, both adherent and suspension cell lines.
- ✓ **Non-toxic:** minimal cytotoxicity with a cell survival rate >90%.
- ✓ **Serum compatible in cell cultures.**
- ✓ **Easy and time-saving protocol:** just 24 minutes to successful transfections with minimal handling.
- ✓ **Optimized:** direct application for most cell lines.
- ✓ **Proven performance:** for transient and stable transfections, adherent and suspension cells.
- ✓ **Cost effective:** minimal amount of DNA required and allows use the same medium after transfection.

## Incoming Products:

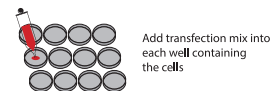
- CrispFAST™ Transfection Reagent

## Protocol:

Prepare the transfection mix



Transfect the cells



## Applications:

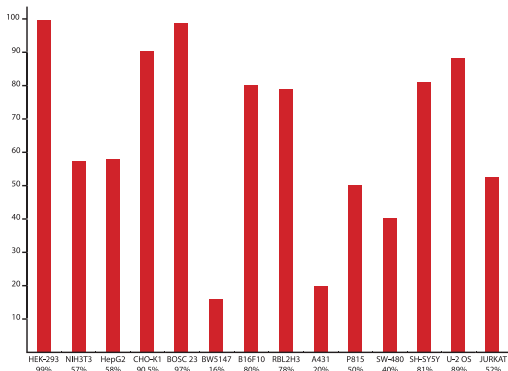
- ✓ High-throughput transfection.
- ✓ Stable and transient transfections.
- ✓ Co-transfection.
- ✓ Transfection of primary cells and cell lines.
- ✓ Transfection of adherent and suspension cells.
- ✓ All cellular analysis applications.

## Quality control:

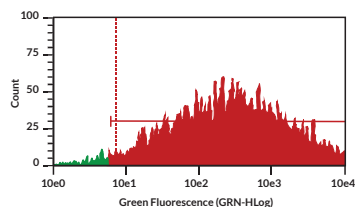
- ✓ Transfection range of Green fluorescent protein expression vector in JURKAT cell line are >50%.

## High transfection efficiency in most common cell lines:

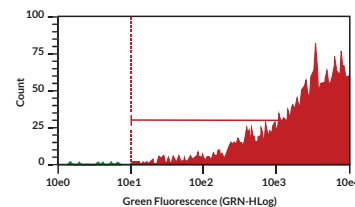
### Transfection efficiency (%)



**Figure 4.1:** Transfection efficiency in different cell lines using CANFAST™. The cells lines have been transfected with a vector expressing green fluorescent protein reporter, driven by cytomegalovirus promoter.



**Figure 4.2:** CHO Transfection with CANFAST™



**Figure 4.3:** HEK-293 Transfection with CANFAST™

## Cells successfully transfected with CANFAST™ include:

Cells line	Origin	Cell type
CHO-K1	Hamster	Chinese ovary cells, epithelial
HEK-293	Human	Embryonic kidney fibroblast
BOSC 23	Human	Kidney: transformed with adenovirus 5 DNA
HepG2	Human	Hepatocarcinoma, epithelial
A431	Human	Squamous carcinoma
SW480	Human	Colon adenocarcinoma
56FTH 80	Human	Fetal trachea epithelium cells
6CFSMEo-	Human	Submucosal gland epithelium cells
9HTEo-	Human	Adult trachea epithelial cells
A549	Human	Type II pneumocytes
CACO-2	Human	Colorectal adenocarcinoma cells
CFNPE9o-	Human	Nasal epithelium cells
CFPEo-	Human	Trachea epithelium cells
HCS-2/8	Human	Chondrocyte-like cells
HeLa	Human	Cervix epitheloid carcinoma
Hep 2C	Human	Epidermal carcinoma cells
Jurkat	Human	T cell leukemia
KB	Human	Epithelial cells
MCF7	Human	Breast adenocarcinoma cells
Cos-7	Monkey	Kidney cells
B16F10	Mouse	Skin melanoma, epithelial
BW5147	Mouse	AKR/JT cell lymphoma
P815	Mouse	Matocytoma
NIH3T3	Mouse	Embryonic fibroblast
BNL CL.2	Mouse	Hepatocytes
C-26	Mouse	Colon carcinoma cells
C2C12	Mouse	Myoblasts
CT26	Mouse	Non-immunogenic colon carcinoma
L929	Mouse	Subcutaneous connective tissue fibroblasts
MCA-38	Mouse	Colon carcinoma cells
Neuro 2A	Mouse	Neuroblastoma cells
SH-SY5Y	Human	Neuroblastoma cells
LLC-PK1	Porcine	Kidney epithelial cells
RBL2H3	Rat	Basophilic leukemia
<b>Primary cell cultures</b>		<b>Origin</b>
Postmitotic neurons	Human	
Embryonic stem cells	Human	
Embryonic stem cells	Mouse	
Postmitotic	Rat	