

***TransIT*[®]-LT1 Transfection Reagent**

A broad spectrum, low toxicity, DNA transfection reagent

- **Broad Spectrum DNA Delivery**—Utilize one transfection reagent and protocol for a variety of cells.
- **Low Cellular Toxicity**—Maintain cell density and reduce experimental biases.
- **High Efficiency Delivery**—Achieve expression in a large population of cells for experimental success.
- **Deliver Single or Multiple Plasmids**—Suitable for many applications such as gene expression, siRNA/shRNA expression, viral production, and promoter analysis.

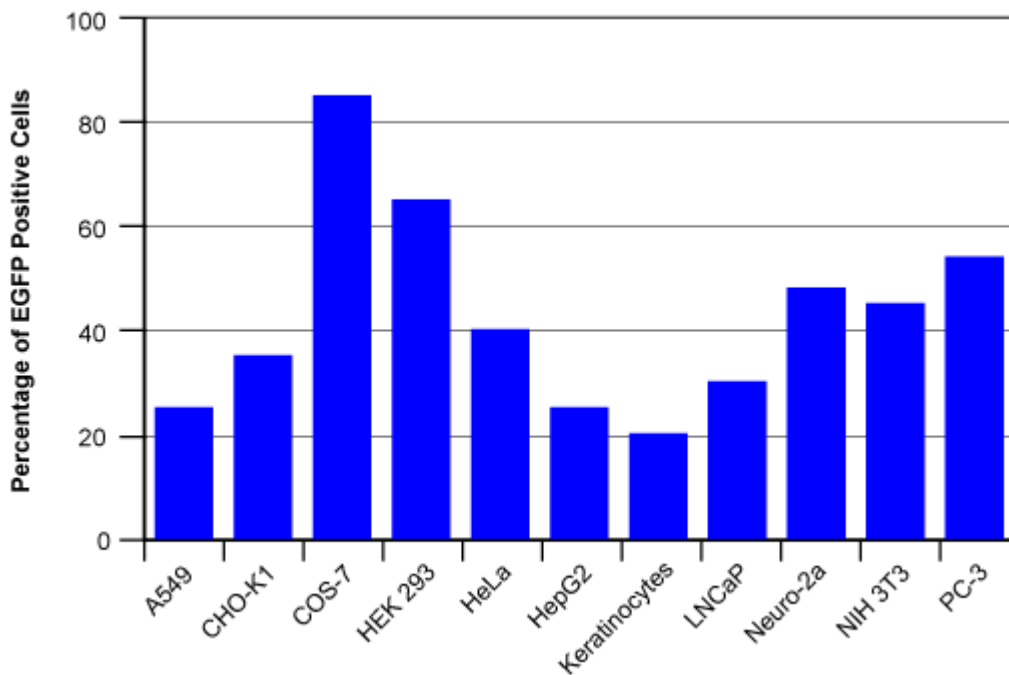
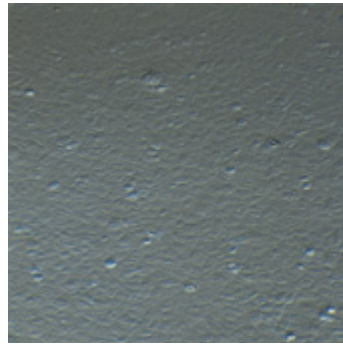
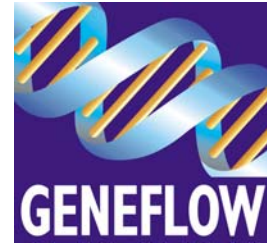
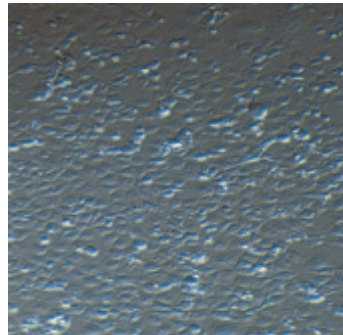


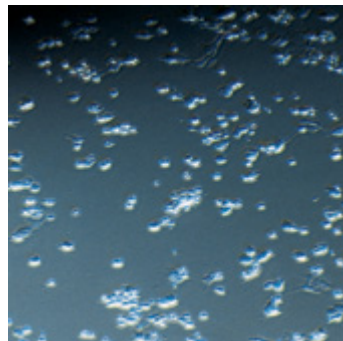
Figure 1. The *TransIT*[®]-LT1 Reagent Efficiently Delivers DNA to a Wide Variety of Cell Lines. Using the *TransIT*[®]-LT1 Transfection Reagent, cells were transfected with the pEGFP-C1 expression vector, and the percentage of EGFP expressing cells was determined 24-48 hours post-transfection.



A-Nontransfected



B-TransIT®-LT1 Reagent



C-Competitor Reagent L

Figure 2. The *TransIT*®-LT1 Reagent Exhibits Low Cellular Toxicity Compared to Another Leading Transfection Reagent.

COS-7 cells were transfected using Mirus Bio's *TransIT*®-LT1 Reagent or a leading competitor, Reagent L, according to the manufacturer's recommendations. The presence of rounded cells and the disappearance of many cells in the Reagent L transfected sample, compared to the nontransfected cells (A), illustrates the extreme cellular toxicity observed with Reagent L (C). In contrast, the cells transfected with the *TransIT*®-LT1 Reagent (B) exhibited minimal cellular toxicity.

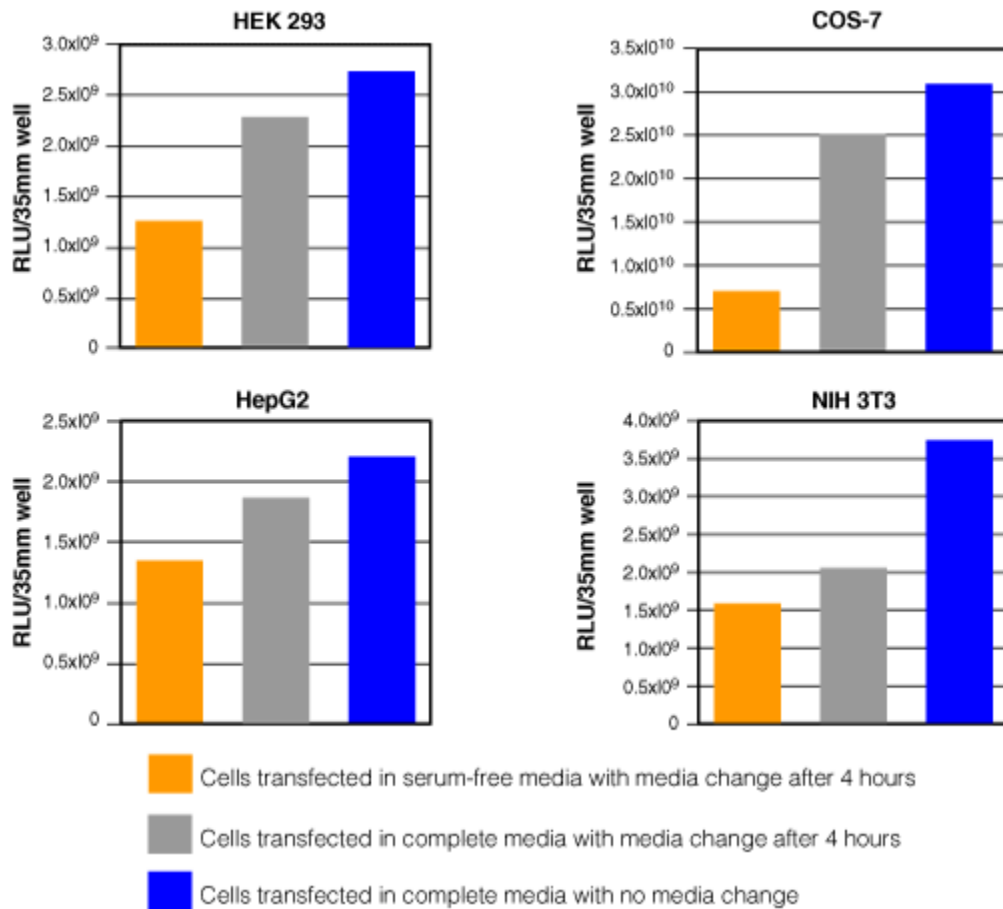


Figure 3. The *TransIT*®-LT1 Reagent Performs Best in the Presence of Serum Containing Media.

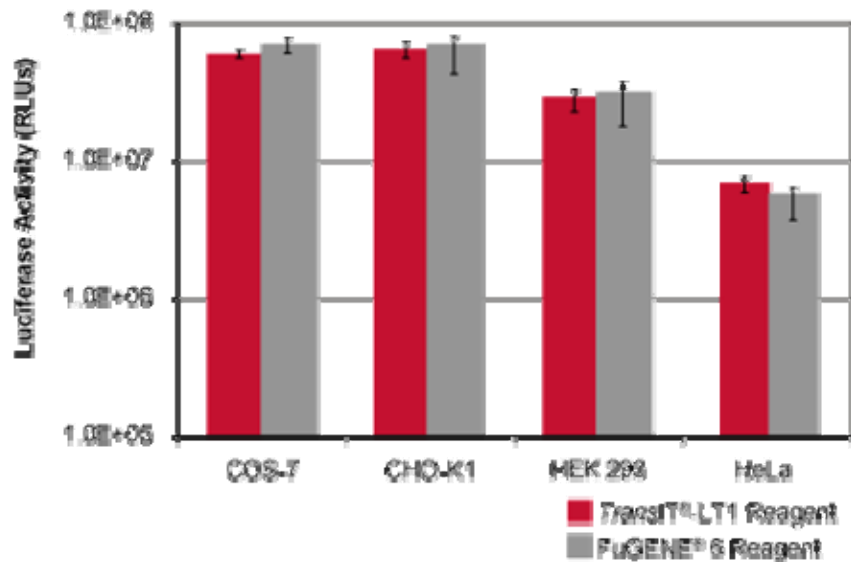
Using the *TransIT*®-LT1 Reagent, the indicated cells lines were transfected with a luciferase expression vector using three different media conditions: cells were transfected in the presence of (1) serum-free media or (2) complete media with media changes 4 hours post-transfection, or transfected in the presence of (3) complete media with no media change post-transfection. The cells were harvested 48 hours post-transfection, and the total luciferase activity per well was determined.



Replace Your FuGENE® 6 Reagent with Mirus Bio's *TransIT*®-LT1 Reagent Achieve Comparable Performance with *TransIT*-LT1 Reagent:

- In 1995 Mirus Bio scientists developed and patented (U.S. 5,744,335) a new low toxicity formulation for plasmid transfection of mammalian cells.
- Mirus Bio licensed the technology to Roche who offers it as FuGENE 6 Reagent.
- Mirus Bio sells this patented formulation as the *TransIT*-LT1 Reagent.

Comparable Luciferase Expression In Side-by-Side Transfections



The indicated cell lines were transfected in duplicate with 1 µg of a luciferase expression vector per well of a 12-well plate using either 3 µl of the *TransIT*®-LT1 or FuGENE® 6 Reagents. Cells were harvested 24 hours post-transfection and assayed for luciferase activity.