

- > **POWERFUL** and Efficient
- > **Extremely gentle** to cells
- > Uses **low amounts of DNA**
- > Very **Convenient**

jetPRIME™ is a novel non-liposomal reagent based on Polyplus' cutting edge delivery technology. It ensures effective and reproducible DNA transfection into mammalian cell lines such as HeLa, HEK-293 and CHO cells. **jetPRIME™** shows very low toxicity as it only requires low amounts of DNA for optimal transfection.

Outstanding transfection efficiency with the lowest toxicity

jetPRIME™ reagent shows maximal transfection efficiency in a variety of commonly used cells, using only 2 µg of DNA per well in 6-well plates.

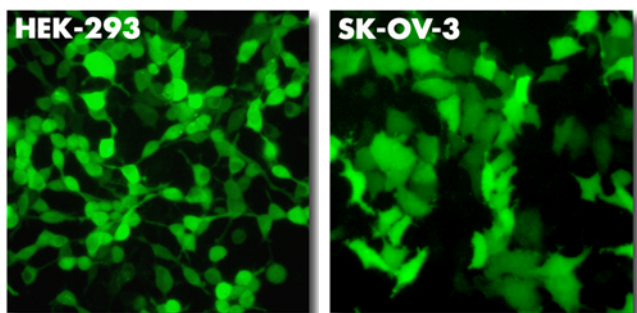


Fig. 1: GFP expression in HEK-293 and SK-OV-3 cells 24 h after transfection with pCMV-GF plasmid using jetPRIME™.

Using **jetPRIME™** reagent and DNA, transfection efficiencies range between 70 and 90 % on standard cell lines.

Less DNA, more cell survival and better transfection efficiency

jetPRIME™ is extremely gentle to cells during transfection leading to increased cell viability (Fig 2) and improved transfection results. Cells transfected with **jetPRIME™** are healthy, while major cytotoxicity is observed with competitor.

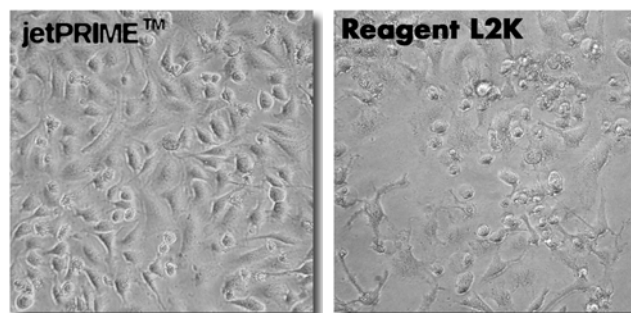


Fig. 2: Phase contrast microscopy pictures of HeLa cells taken 24 h after transfection of pCMV-Luc plasmid. The transfection assays were performed according to the manufacturer's recommendations for each reagent.

Higher transfection efficiency with small amounts of DNA

jetPRIME™ is such a powerful *in vitro* transfection reagent that it only requires small amount of plasmid DNA (Fig. 3 and 4). Upon comparison with other transfection reagents, **jetPRIME™** was the most efficient at lower DNA concentrations.

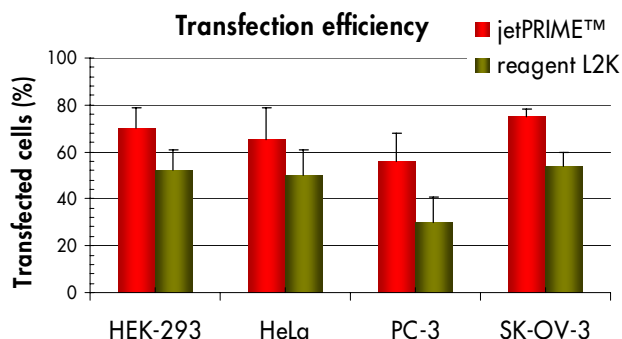


Fig. 3 : Transfection efficiency assessed by flowcytometry analysis in various cell lines following transfection of pCMV-GFP plasmid. Transfection was performed using 250 ng DNA per well in 24-well plate following the manufacturer's recommendations.

More Gentle to cells than competitor

The low toxicity of jetPRIME™ was confirmed using an MTT test. Cell survival after transfection was significantly superior with jetPRIME™ compared to competitor.

MTT assay after transfection with 250 ng DNA

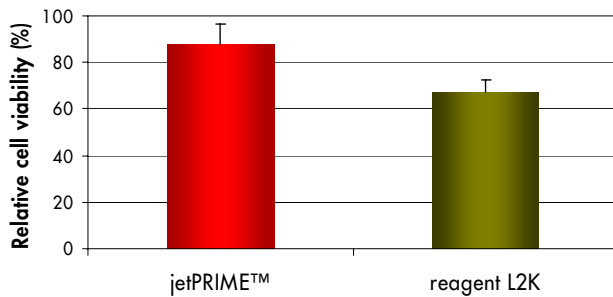


Fig. 4: MTT assay determined 24 h after transfection to assess cell viability. Transfection of HeLa cells was performed according to the manufacturer's recommendations for each reagent.

Convenient protocol

jetPRIME™ is an easy-to-use transfection reagent:

- Fast and easy to scale up and down (Fig. 5)
- Simple: **1 µg DNA = 2 µl jetPRIME™**
- No medium changes required, hence time saving
- Compatible with serum and antibiotics

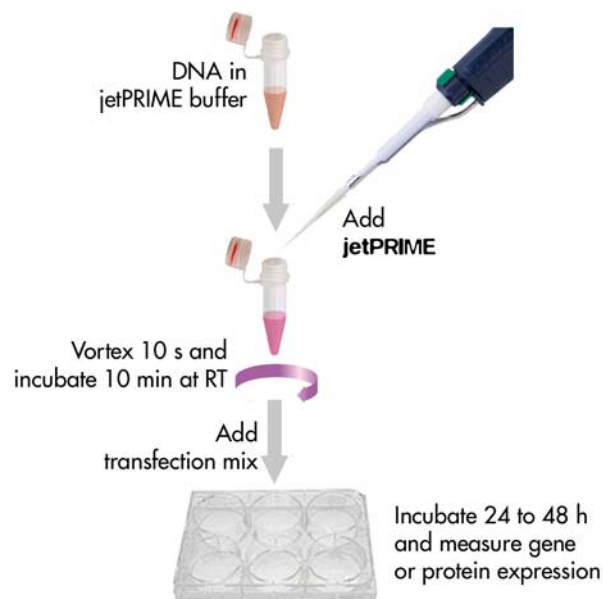


Figure 5. jetPRIME™ convenient protocol.

In addition to reducing costs, using less DNA also minimizes adverse cytotoxic effects triggered by transfection. Hence, jetPRIME™ is a reagent of choice for high transfection efficiency with excellent cell viability.

Friendly and personalized transfection advice

In order to help you obtain the best transfection results, Polyplus' transfection specialists share their knowledge about transfection and adapt it to your needs. This personalized scientific service will save you time and allow you to discuss your transfection issues with our experts.

Our scientific experts can be reached online at support@polyplus-transfection.com or by phone: +33 390 406 187.

Product	Cat N°	Reagent	JetPRIME™ Buffer
jetPRIME™	114-01	0.1 ml	5 ml
	114-07	0.75 ml	40 ml
	114-15	1.5 ml	2 x 40 ml

1.5 ml of jetPRIME™ transfection reagent is sufficient to perform ca. 1500 transfections in 24-well plates or 375 transfections in 6-well plates.

Bulk quantities are available upon request.

PF jetPRIME vA

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