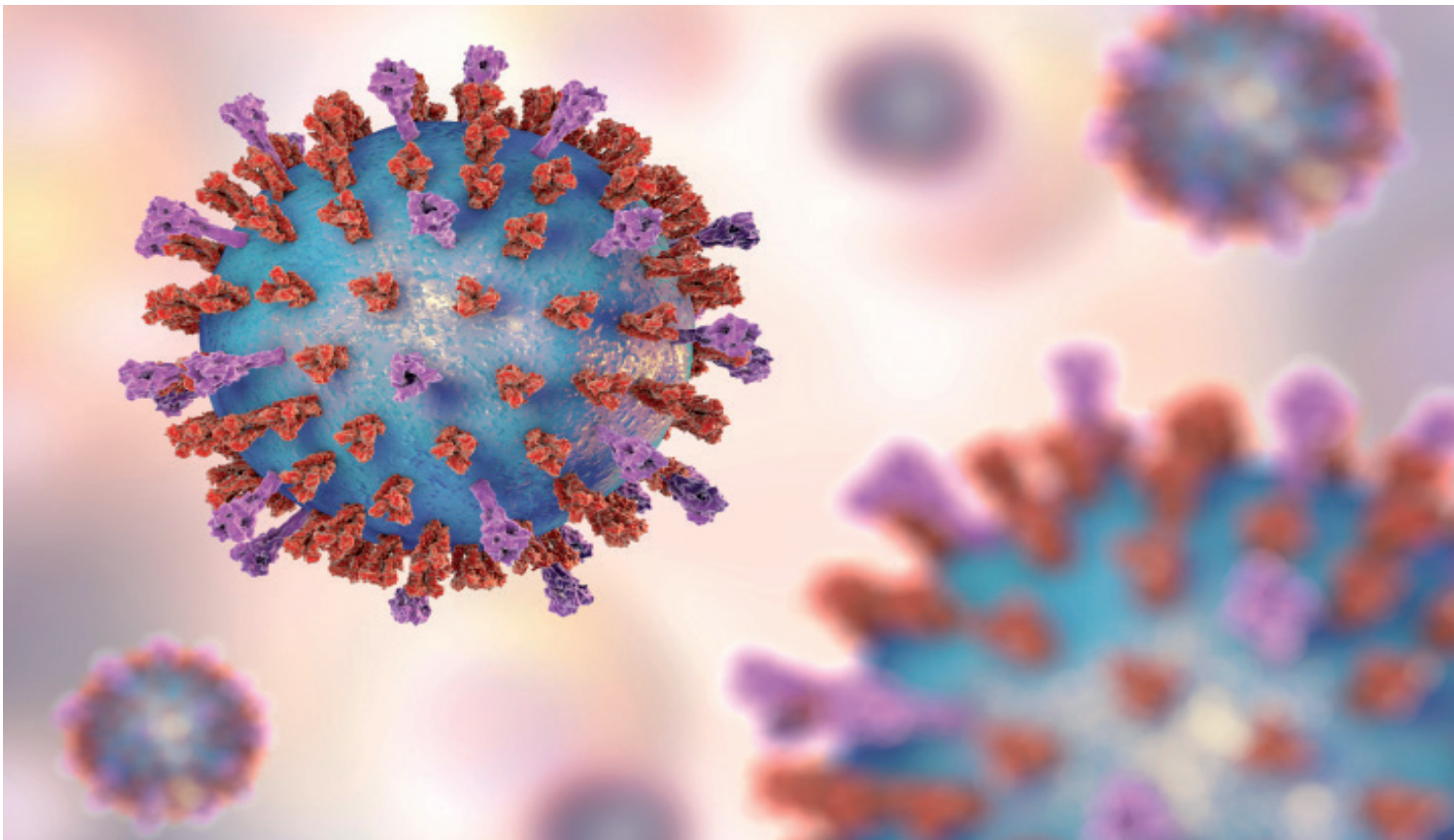




OZ BIOSCIENCES
The art of delivery systems



Lentiviral production

HYVIR™ transfection reagent

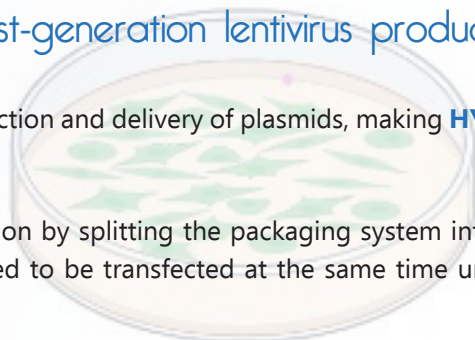
Novel lipid-based transfection kit dedicated to

HYVIR™: The steady transfection reagent for latest-generation lentivirus production

The specific formulation of **HYVIR™** enables optimal compaction, protection and delivery of plasmids, making **HYVIR™** ideal for the production of last generation of lentiviruses.

3rd generation system, while improving the safety of the 2nd generation by splitting the packaging system into two plasmids, also increases the difficulty for delivery: now 4 plasmids need to be transfected at the same time under a precise stoichiometry.

Thanks to its chemical moieties, **HYVIR™** which is issued from the catalogue of proprietary last generation of OZ Biosciences lipids is the perfect transfection reagent dedicated to this task as it allows maximal compaction for an efficient co-transfection of packaging plasmid(s), envelope plasmid and lentiviral transfer plasmid encoding your gene of interest.



Easy & Reliable

HYVIR™ is highly efficient for the co-transfection of 4 plasmids at the same time leading to high protein production yields as demonstrated below with 4 plasmids encoding for reporter genes.

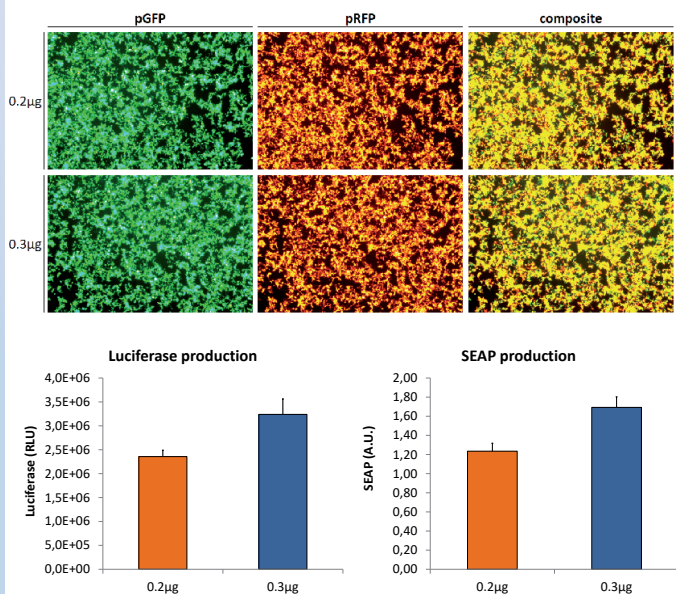


Fig 1 : Co-transfection of 4 plasmids (pVectOZ-GFP, pRFP, pVectOZ-LUC and pVectOZ-SEAP) on HEK293T with **HYVIR™**

Performant

HYVIR™ transfection reagent allows to scale-up viral production. Indeed, the use of this product clearly results in an important earning of viral particles. It is easily scalable for production in large volumes and can be raised to our superior grade range.

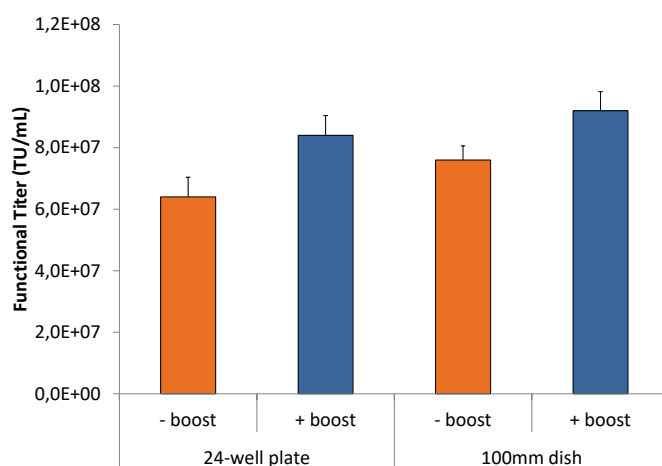


Fig 2 : Titration of Lentivirus in HEK293T after production using **HYVIR™** in presence (+Boost) or absence (-Boost) of **HYVIR™ Boost** in 24-well plates or 100mm dishes

enhance viral particles production in HEK-293T

HYVIR™ outstands competitors reagents

Compared to competitors, **HYVIR™ transfection reagent** induces the production of higher yields of infectious lentiviral particles.

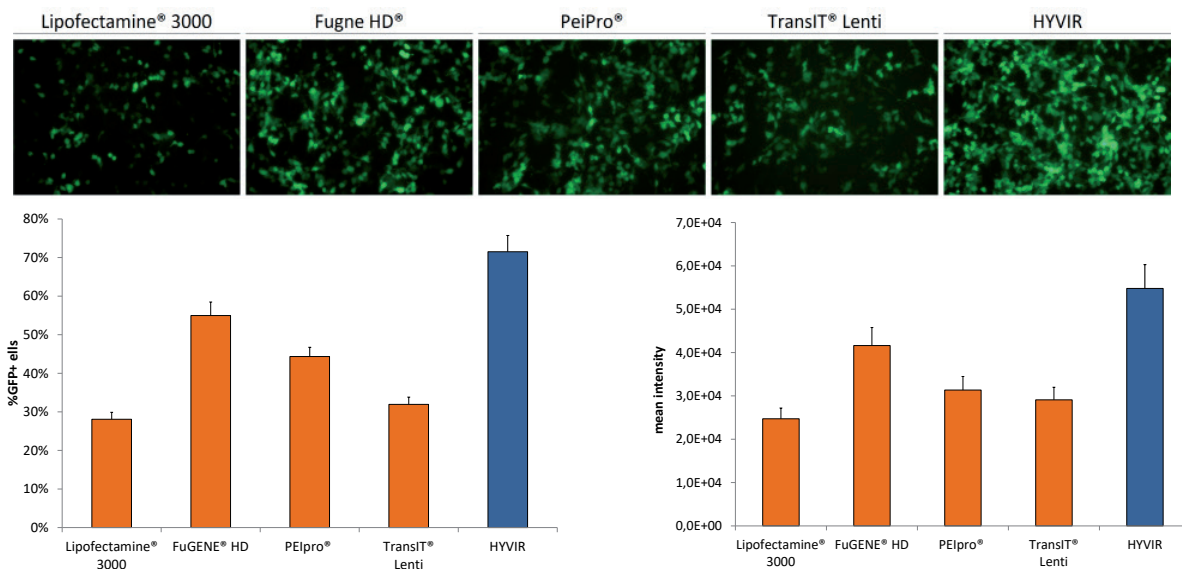


Fig 3 : Transduction of lentivirus in HEK 293T after production using competing reagents or HYVIR™

High and linear transduction efficiency with unconcentrated lentivirus produced using HYVIR™

Unconcentrated lentiviral particles produced with **HYVIR™** enable cells to be infected and transduced in a dose-dependent manner.

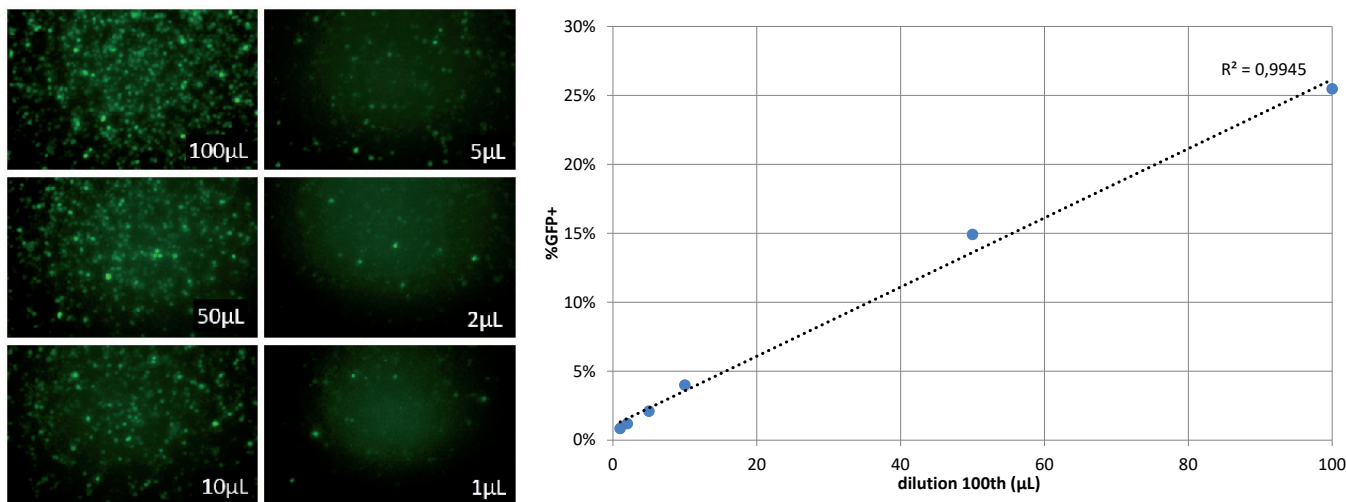


Fig 4 : GFP expression in JURKAT T cells after transduction with lentivirus produced in HEK293T cells using HYVIR™

Additional products :

HYPE-CHO™

Transfection Kit has been designed for large scale up transient transfection and high protein expression such as antibody.

Medium	HYPE-CHO™
FreeStyle™ CHO	✓
ExpiCHO™	✓
EX-CELL® CHO	✓
ProCHO™ -CD	

HYPE-293™

Transfection Kit is dedicated to achieve High Yield Protein Expression in HEK-293, 293-S, 293-F or any 293-related cells growing in suspension.

Medium	HYPE-293™
FreeStyle™ 293	✓
Expi293™	✓
EX-CELL® 293	✓
Pro293™ -CD	✓

LENTIBLAST PREMIUM™ :

A novel patented chemical composition that dramatically increases lentiviral infection and transduction efficiency in any type of cells, adherent or in suspension, primary or cell lines. The properties of this reagent allow simultaneously neutralizing electrostatic repulsions between membrane and viral particles and enhancing viral fusion with cell membrane. Non-toxic and totally compatible with cell viability.

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