



OZBIOSCIENCES
The art of delivery systems



Cell & Gene Therapy

Increase viral particles production & enhance viral infection efficiency

HYVIR™ Transfection Reagent

HYVIR™, is a novel lipid-based transfection kit dedicated to **enhance viral particles production** in HEK-293T cells. Its specific formulation allows an optimal plasmid compaction, protection and delivery rendering HYVIR™ ideal for the production of last generation of lentivirus.

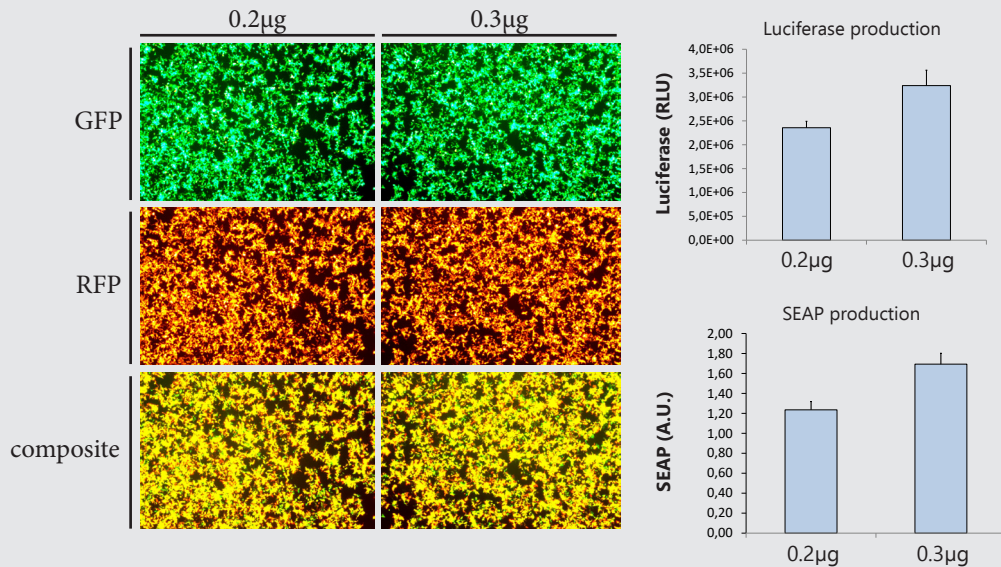


Figure 1. HYVIR™ co-transfect 4 plasmids at the same time with a great efficiency leading at high yield of protein production.

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™ 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.

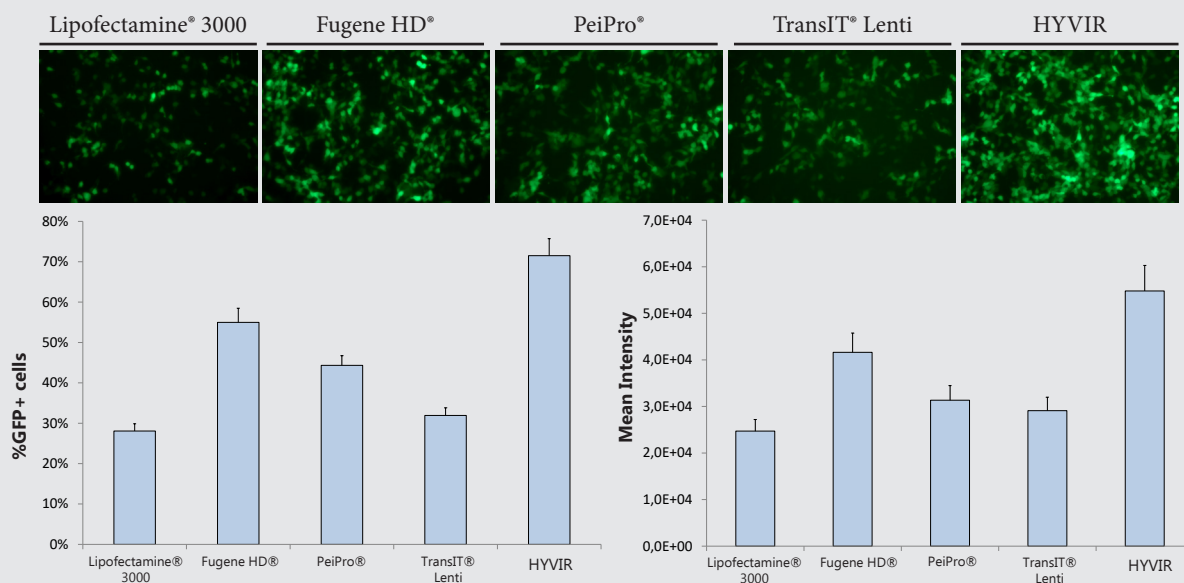


Figure 2. Compared to competitors, HYVIR™ induces the production of higher yields of infectious lentiviral particles.

LentiBlast Premium Transduction Enhancer

LentiBlast Premium is a novel patented chemical composition that dramatically **increases lentiviral infection and transduction efficiency** in any type of cells.

The properties of this reagent allow simultaneously neutralizing electrostatic repulsions between membrane and viral particles and enhancing viral fusion with cell membrane.

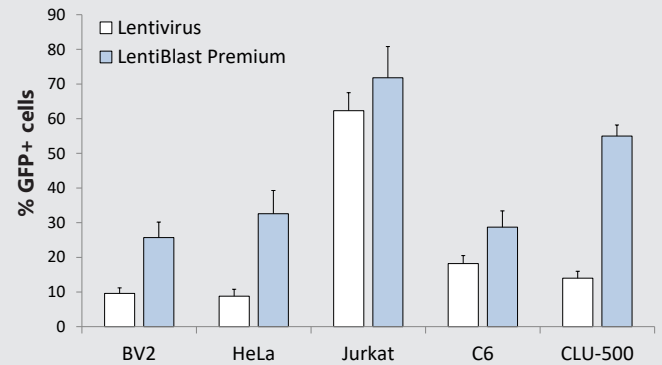


Figure 3. LentiBlast Premium enhances transduction efficiency in cell lines.

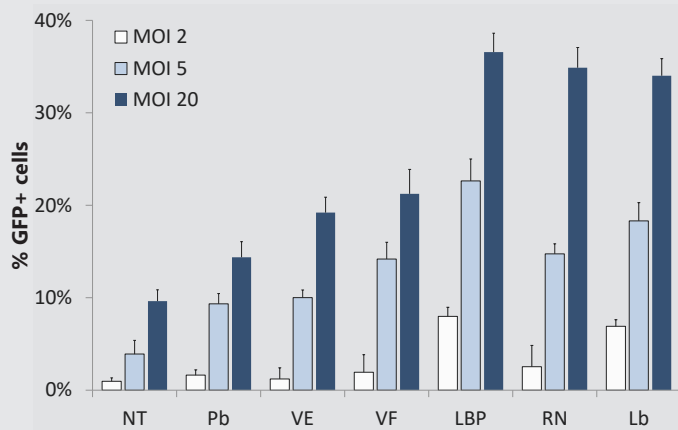


Figure 4. Comparison of transduction enhancers of CD34+ cell line with lentiviral vector

Key Benefits:

- **Increase lentivirus infection efficiency for hard to transduce cells:** The right solution for Stem Cells, Primary T cells
- **Save effort & money:** Achieve same transduction results with a lower viral titer
- **Maximize cell Viability:** Non-toxic

NT, Non Treated infected cells; Pb, Polybrene; VE, ViralEntry; VF, VectoFusin; LBP, LentiBlast Premium; RN, RetroNectin; Lb, LentiBOOST.

AAVBlast Transduction Enhancer

AAVBlast is a chemical AAV transduction enhancer, very effective to promote viral- mediated genetic modification. **AAVBlast** improves transduction in a wide range of cell types from classic cell lines to primary cells or mesenchymal stem cells.

Its patented formulation and unique thermoresponsive gelling properties, ensure the protection of viral particles and allow an increase in transduction efficiency.

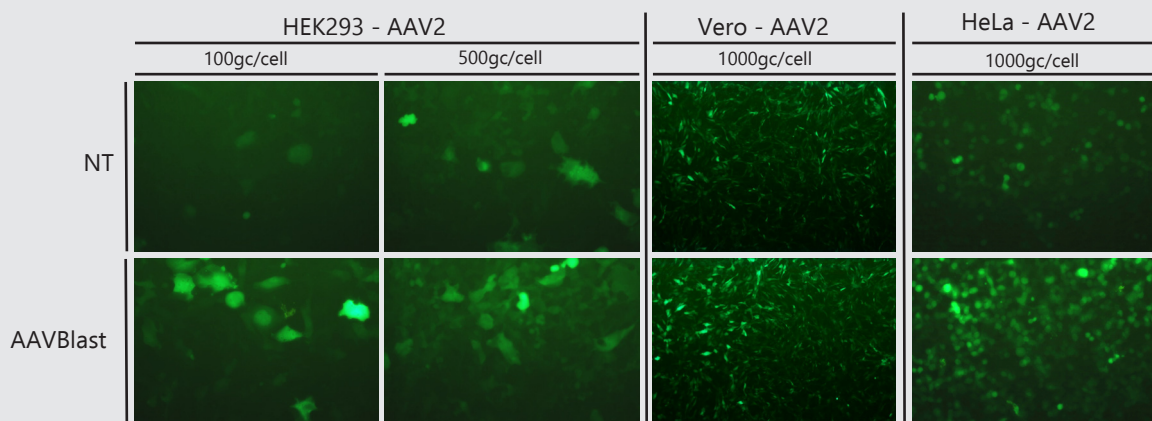


Figure 5. GFP expression in HEK293, Vero cell and HeLa cells 72h after transduction with AAV2 and AAV6 in presence or not of **AAVBlast**.

Complementary products :

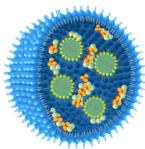
HYPE Range :

- **HYPE-CHO™**: dedicated to achieve **High Yield Protein Expression** in CHO cells growing in suspension.
- **HYPE-293™**: designed to achieve **High Yield Protein Expression** in HEK-293, 293-S, 293-F or any 293-related cells growing in suspension.

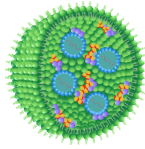
Ready to use mRNA :

OZ Biosciences offers mRNAs that mimic fully processed mature mRNAs. These mRNAs are stabilized with **5' Cap 1** structure and **3' poly(A) tail** and are optimized to yield improved stability & performance. They can be modified with **5-methoxyuridine** or **N1-methyl-pseudouridine** to reduce innate immune responses. We also offer **unmodified mRNAs**.

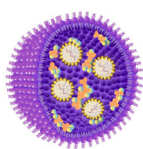
Ready to use Lipid NanoParticles :



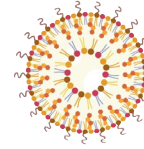
NanOZ LNP
mRNA(GFP)



NanOZ LNP
mRNA(Luc)



NanOZ LNP
mRNA(OVA)



NanOZ empty-LNP

Custom services for mRNA and LNP :

Our platforms can produce custom mRNA according to your needs and preferences, and encapsulate them into LNP with the formulation of your choice.

Fill out the form on our website and we will get back to you with a quote !

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