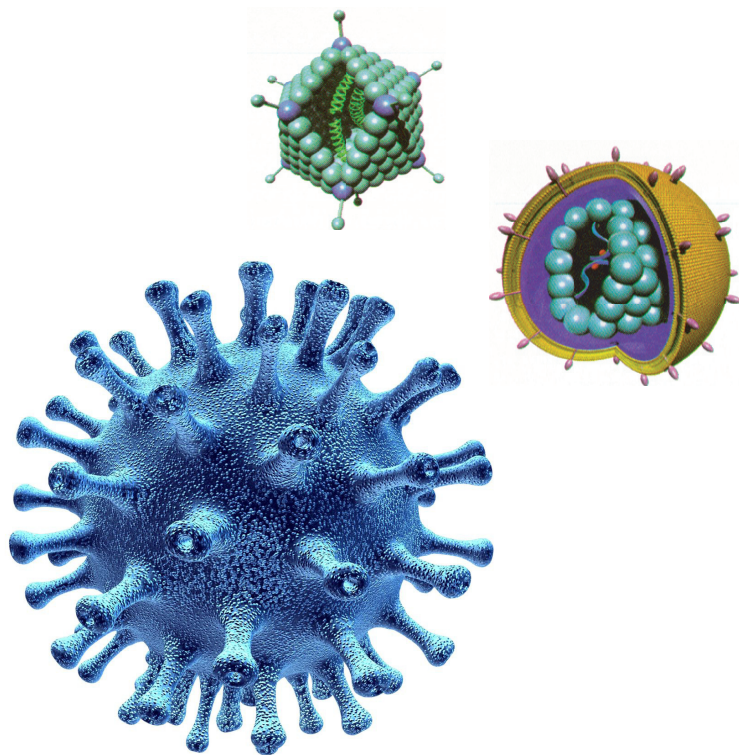




OZBIOSCIENCES
The art of delivery systems

Transduction Infection tools



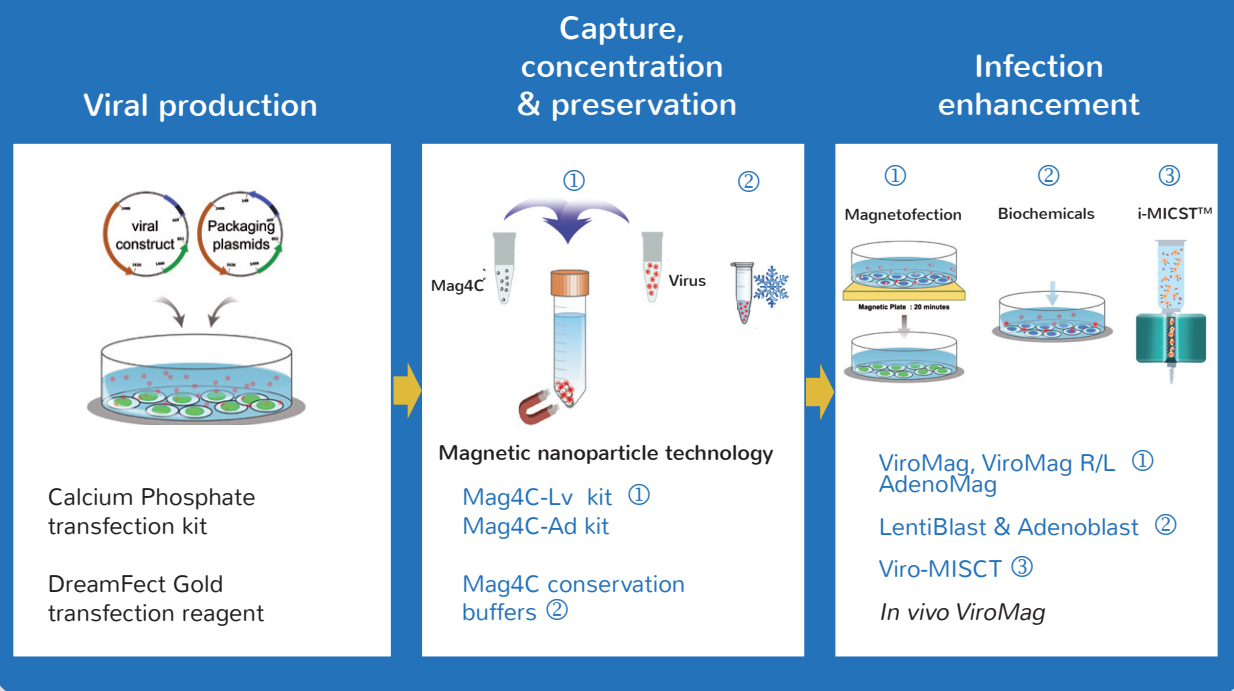
VIRAL APPLICATIONS

*Enhance, synchronize and accelerate transduction/infection
Production, capture, concentration & storage*

Virus: production, capture,

VIRAL WORKFLOW

Cells transduction represents a powerful tool to genetically modify a wide variety of cell lines, primary cells, tissues and organs. OZ Biosciences has created a comprehensive line of reagents dedicated to viral applications.



Mag4C

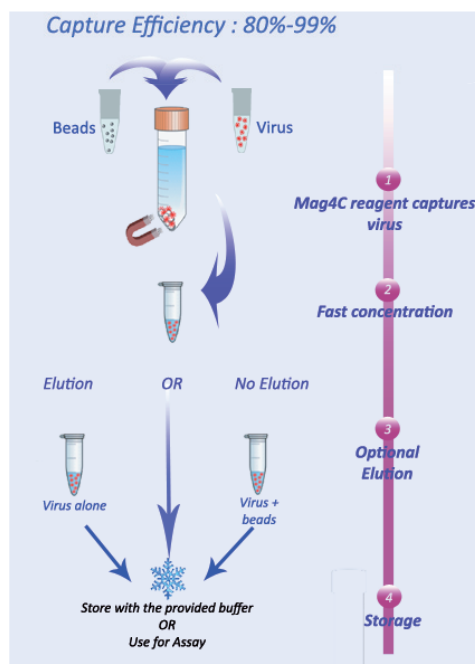


Figure 1: Mag4C Protocol

Capture, concentrate and store viruses. Mag4C Lv (Lentivirus) & Ad (Adenovirus) reagents are based on a magnetic virus concentration technology (magnetic nanoparticles).

- Concentration of viruses by magnetic capture in 30-45 minutes
- 80 to 99% of viral capture and recovery
- Avoid ultracentrifugation, precipitation and chemicals. Reduced handling steps of viruses
- Improve virus preservation

Mag4C conservation buffers (Lv & Ad) can be ordered separately from the kit. These buffers preserve virus infectivity during storage and minimize loss of viral titers during storage and freeze/thaw cycles.

concentration & transduction

ViroMag & AdenoMag

Based on the Magnetofection™ technology, **ViroMag**, **ViroMag R/L** and **AdenoMag** allow to concentrate the complete applied dose of viral particles onto cells within minutes.

- Highly enhance transduction efficiency with low vector doses
- Accelerate the transduction kinetics
- Concentrate viruses onto cells in minutes
- Synchronize cell absorption/infection
- Extend tropisms to non-permissives cells

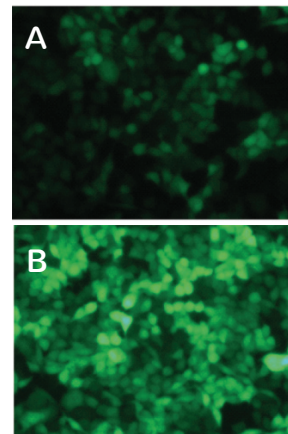
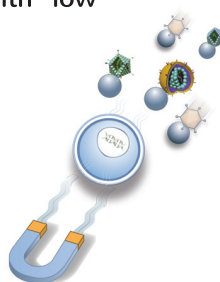


Figure 2: HeLa cells infected with A) Lentivirus only B) Lentivirus+ViroMag

Having a magnetic cell purification system?

This technology combines cell sorting and genetic modification in one simple and reliable integrated system.

- Capture virus and infect cells within a magnetic cell purification column
- Transduction and isolation in one integrated system
- Allow to reduce cell manipulation and save time
- Suitable with any viral vector

Viro-MICST

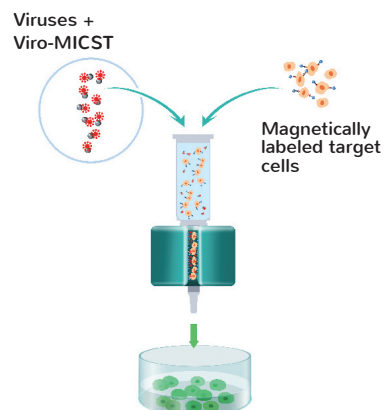


Figure 3: Viro-MISCT™ technology

LentiBlast and **AdenoBlast** reagents have patent-protected chemical compositions that improve significantly infection or transduction efficiency.

- Enhance infection and transduction efficiency of Lentivirus or Adenovirus
- Non-toxic & compatible with all cells
- Allow using low MOI

LentiBlast & AdenoBlast

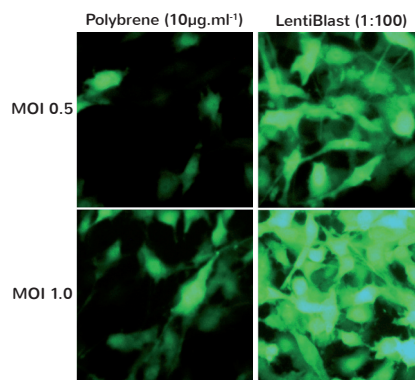


Figure 4: Transduction of NIH-3T3 cells

OZ Biosciences supplies several solutions for viral applications:

- Viral Production - **DreamFect Gold, Calcium Phosphate kit**
- Capture, concentrate & preservation - **Mag4C kits**
- Enhancement of viral transduction- **ViroMag, ViroMag R/L & AdenoMag**
- Enhancement of viral transduction or infection- **LentiBlast & AdenoBlast**
- Cell isolation and transduction in one integrated system - **Viro-MICST**

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