

Data Sheet

Titanium™ LentiPrecipitating Reagent

Cat No	KB-KA00-100
Size	100 ml
Storage	Store at 4°C. Avoid repeated freeze-thaw cycles

Description:

Titanium™ LentiPrecipitating Reagent is a mixture of polymers optimized for the precipitation of lentiviral particles. It provides a simple, fast and highly efficient method for concentrating lentiviral particles.

In this simple protocol, the lentiviral supernatant is mixed with Titanium™ LentiPrecipitating Reagent. Perform a short incubation, and spin in a standard centrifuge. The lentivirus titer increases by upto 100 fold in as quick as 4 hours. Also obtain excellent recoveries without ultracentrifugation.

The Titanium™ LentiPrecipitating Reagent is provided as a 5x solution.

Key Features:

- Easy-to-use: simply mix
- No ultracentrifugation required
- Easily scale up for large volumes
- Upto 100 fold concentration increase
- Cost effective spin protocol for efficient viral concentration
- Non-toxic: safe for all cell lines, including ES cells

Usage:

1. Transfer the media containing lentiviral particles from plates to a sterile vessel and centrifuge the medium at 300 x g for 10 min to remove cell debris.
2. Filter the supernatant through 0.45 um filter.
3. Transfer filtered supernatant to a sterile vessel and add 1 volume of cold Titanium™ LentiPrecipitating Reagent (4°C) to every 4 volumes of lentivirus-containing supernatant. (Example: 5ml Lentivirus Precipitation Solution with 20ml viral supernatant).
4. Mix well and refrigerate 3hrs to overnight. Lentivirus-containing supernatant mixed with Titanium™ LentiPrecipitating Reagent are stable for up to 4 days at 4°C..
5. Centrifuge mixture at 1500 x g for 30 minutes at 4°C. After centrifugation, the lentiviral particles may appear as a beige or white pellet at the bottom of the vessel.
6. Discard supernatant. Spin down residual solution by centrifugation at 1500 x g for 5 minutes. Remove all traces of fluid by aspiration, taking great care not to disturb the precipitated lentiviral particles in pellet.
7. Resuspend lentiviral pellets in 1/10 to 1/100 of original volume using cold, sterile PBS or DMEM at 4°C.
8. Aliquot in cryogenic vials and store at -80°C until ready for use.

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