

Product Specification Sheet

Product Name	Retrovirus Precipitation Solution
Description	Retrovirus Precipitation Solution is a mixture of polymer optimized for the precipitation of retroviral particles. It provides a simple, fast and highly efficient method for concentrating retroviral particles. In the simple protocol, you just mix your retroviral supernatant with the Retrovirus Precipitation Solution, incubate for a short period, and spin the mixture in a standard centrifuge. You'll increase your retrovirus titer by up to 100 fold as quick as in 4 hours, and obtain excellent recoveries without ultracentrifugation. The Retrovirus Precipitation Solution is a 5x solution.
Catalog Number	VC200
Size	100 ml
Shipping	Room temperature
Storage and Stability	Store at 4 °C. This product is stable for 6 months when stored as directed.
Quality Control	Each lot of Retrovirus Precipitation Solution is tested for sterility and successfully precipitates retroviral particles.
Restricted Use	For Research Use Only. Not for use in diagnostic or therapeutic procedures.

Protocol

Retrovirus Precipitation Solution

OVERVIEW

Retrovirus Precipitation Solution is a mixture of polymer optimized for the precipitation of retroviral particles. It provides a simple, fast and highly efficient method for concentrating retroviral particles. In the simple protocol, you just mix your retroviral supernatant with the Retrovirus Precipitation Solution, incubate for a short period, and spin the mixture in a standard centrifuge. You'll increase your retrovirus titer by up to 100 fold as quick as in 4 hours, and obtain excellent recoveries without ultracentrifugation. **The Retrovirus Precipitation Solution is a 5x solution.**

PROCEDURE

1. Transfer the media containing retroviral 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 µm filter.
3. Transfer filtered supernatant to a sterile vessel and add 1 volume of cold **Retrovirus Precipitation Solution** (4°C) to every 4 volumes of retrovirus-containing supernatant. (Example: 5ml **Retrovirus Precipitation Solution** with 20ml viral supernatant).
4. Mix well and refrigerate 4hours to overnight. Retrovirus-containing supernatant mixed with **Retrovirus Precipitation Solution** are stable for up to 4 days at 4°C.
5. Centrifuge mixture at 1500 × g for 30 minutes at 4°C. After centrifugation, the retroviral 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 × g for 5 minutes. Remove all traces of fluid by aspiration, taking great care not to disturb the precipitated retroviral particles in pellet.
7. Resuspend retroviral 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.