Cellomics Technology
innovative tools for genetic engineering

ViroGold Lentivirus Concentrator
(Cat. Con-1001-50, and Con-1001-200)

Introduction

The ViroGold Lentivirus Concentrator (Cat. Con-1001) provides a fast and simple method for concentrating lentiviral packaging supernatant. Concentration is achieved by mixing a lentiviral supernatant with this concentration reagent, followed by centrifugation in a standard centrifuge. The process is easy to scale up for larger supernatant volumes.

No ultracentrifugation is required. The concentration manual operation can be completed in as short as 10 minutes. The concentration step increases virus titer (IFU/ml) by 1000 folds with minimal loss of material.

The purity of the concentrated lentivirus is high enough for both *in vivo* and *in vitro* use.

Protocol

1. Harvest lentiviral supernatant. Centrifuge at 500 g for 10 minutes to remove cell debris.
2. Collect the supernatant and filtered it through 0.45 μm CA or PES filter (optional).
3. Add one volume of 5xViroGold Lentivirus Concentrator to 4 volumes of virus-containing supernatant, mix well

4. Centrifuge at 6000 g for 10-24 hours at 4°C.

5. After centrifugation, an off-white pellet will be visible. Descant supernatant slowly, centrifuge again for 2 minutes. Remove extra liquid using 200 µl long tip.

6. Add 1xPBS solution to resuspend the virus pellet.

Option: Add 1/5 volume of LentiGuard® (LenG-1) to prevent lentivirus titer lost during freeze-thaw cycles

7. Aliquot in small aliquots and store at -80 °C until use.