The RNAi Core

Version 1 (07/07/11)

Lentivirus Concentration by PEG-it Precipitation

1. Centrifuge lentivirus at 3000g for 15 min to remove cell debris.

2. Transfer the supernatant to a sterile tube and add 1 volume of 5X PEG-it (SBI, Cat.# LV825A-1) to every 4 volumes of supernatant.

3. Mix well by inverting the tubes and store at 4℃ for at least 12 hours(stable up to 2 days at 4℃)

4. For 15ml tube or 50ml tube, centrifuge at 5000g, 2 hours and for 1.5ml eppendorf centrifuge at 10000g, 1 hour at 4℃ .

5. Remove supernatant. Spin down residual by centrifugation at 1500g for 5 min.

6. Remove all traces of fluid, taking great care not to disturb the precipitated pellet.

7. Resuspend lentiviral pellet in 1/10 to 1/100 of original volume using cold sterile PBS or DMEM complete medium containing 1% BSA at 4℃.

8. Mix thoroughly by pipeting until there are no visible particles and continue to pipet up and down for 20 times.

9. Aliquot to small volume at store at -80℃ until ready for use.