Universal PEG Virus Precipitation Solution (4X)

CATALOG NO: PEG-V

DESCRIPTION

Universal PEG Virus Precipitation Solution is specially designed and optimized solution for precipitating viruses , eVLP, or EVs. It provides an easy, convenient and time-saving method to concentrate viruses, eVLPs or EVs without ultra-centrifugation.

FEATURES

- Easy-to-use and cost-effective method for highly efficient viral concentration
- Non-toxic reagents safe for use with all target cell lines
- No accumulation of cellular debris as with ultracentrifugation
- Sterile and ready for use in cell culture
- Ideally suited for concentrating virus from large volumes
- Freeze pseudoviral particles without titer loss

CONTENT

250 mL Universal PEG Virus Precipitation Solution (4X) at pH 7.2

STOREAGE AND STABILITY

- Store at 4 - 20℃.
- The solutions are ready to use and stable for 12 months

PROTOCOL for enveloped viruses, enveloped virus like particles or extracellular vesicles

1. Harvest virus-cultivated supernatant and cells by scraping with a rubber policeman, followed by centrifugation at 5000x g, 4℃ for 10 min. Calculate harvested supernatant volume as 1 volume.
2. Transfer the supernatant to a centrifuge tube, followed by mixing with ¼ volume of PEG precipitation solution and gently mixing with a shaker or a magnetic stirrer at 4℃ for 60 min or longer.
3. Incubate the mixing solution at 4℃ overnight (at least 8 hrs.).
4. Virus, eVLP or EV can be maximally precipitated by centrifugation at 1,500x g, 4℃ for 50 min.
5. Discard the supernatant by carefully aspirating to eliminate any residual PEG solution, taking care not to disturb the white pellet (precipitated viruses, eVLPs or EVs), or carefully decant the supernatant, followed by turning over centrifuge tube on a paper towel to drain residual PEG solution.
6. Resuspend the pellet with 1/10 – 1/50 volume of cell culture medium or 1x PBS or another type of buffer by shaking for 20 min, or vigorously pipetting the liquid, or vertexing for 20 seconds.
7. Transfer the resuspension into a clean tube and keep at 4℃ for a couple of day storage, or snap-freeze the tubes in crushed dry ice and store them at -80℃ for long-term storage.

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