

Prime-P100-1G

PEI Prime

Protocol

PEI Transfection Reagent Preparation, 1000 mL, 1 mg/mL

Materials

- PEI Prime, powder, 1 g
- 1000 mL cell culture grade water
- 10 mL 1.0 M USP grade sodium hydroxide
- (0.1 or 0.2) μm syringe filter
- Graduated 1000 mL container
- Sterile aliquot containers, polypropylene or polyethylene

Equipment

- Analytical balance
- pH meter
- Biosafety Cabinet or Clean Room Enclosure
- Filtration equipment (e.g. syringes, vacuum pump)

Procedure

1. Accurately weigh and dissolve 1.0 g of PEI Prime powder in 800 mL of cell culture grade water. Mix for several minutes to dissolve powder.
 - Trace amounts of solids may remain after mixing. If present, these will be removed at a later step. These do not interfere with performance.
2. Gradually add 1.0 M sodium hydroxide to PEI Prime solution while monitoring with pH meter to adjust pH to 7.0 +/- 0.2. Mix well in between additions of sodium hydroxide.
 - This should use less than 10 mL 1.0 M sodium hydroxide solution.
3. Add cell culture grade water to bring PEI Prime solution to bring total volume to 1000 mL.
4. In an aseptic environment, such as a clean biosafety cabinet or clean room enclosure, sterile-filter the solution with (0.1 or 0.2) μm syringe filter into sterile storage container(s).
 - PES filter membranes are recommended.
 - Nylon membranes are acceptable.
5. Label and store container(s) at 4°C for up to 6 months.
 - Do not freeze.
 - Do not use aliquots that have been frozen more than once.