Catalog# 24765 – Polyethylenimine HCl MAX, MW 40000, Transfection Grade

Transfection Reagent Preparation and Storage Recommendations

Transfection Reagent Preparation (1 mg/mL)

Materials

- 1g PEI MAX 40K (Polysciences Catalog# 24765)
- 1L Milli-Q® water, water for injection (WFI), or comparable biological-grade water
- 1N Sodium Hydroxide, USP
- Sterile 25 mL plastic pipette
- 0.1µm, 0.2µm, or 0.22µm PES vacuum sterile-filter unit
- Sterile HDPE or polypropylene storage vials

Equipment

- 1L glass beaker
- PTFE-coated stir bar
- Magnetic stir plate
- 1L glass graduated cylinder
- pH meter
- Pipette controller
- Vacuum pump with tubing

Method

1. In 1L glass beaker, suspend 1g of PEI MAX 40K in 900 mL water.

2. Add PTFE-coated stir bar to 1L glass beaker and set stirring to produce small vortex.

3. Wait for PEI MAX 40K to completely dissolve. This typically takes less than 5 minutes.

4. Use 25 mL plastic pipette to add 1N sodium hydroxide dropwise to 1L glass beaker until pH is 6.90 to 7.10.

5. If pH accidently exceeds 7.10, use 1N hydrochloric acid and a new 25 mL plastic pipette to lower pH back to 6.90 to 7.10.

6. Decant solution from 1L glass beaker to 1L graduated cylinder.

7. Add water to 1L graduated cylinder to adjust final volume to 1L.

8. Sterile-filter solution through vacuum membrane.

9. Aliquot solution as desired.

10. Store aliquots at 4°C

Transfection Solution Storage and Shelf Life

At 4°C in a suitable container, the transfection solution will retain its maximum performance for at least six months. For qualitative work, the solution may be suitable for use for up to a year.

Support

We're here to help! Our technical staff can troubleshoot most common and not-so-common issues. Send us an email at **info@polysciences.com** and we will get back to you, typically within one business day.

Pre-made Solutions

We offer pre-made solutions of PEI MAX 40K as our Transporter 5™ Transfection Reagent (Catalog# 26008). Transporter 5™ is 0.1µm sterile-filtered, fully qualified for transfection, and continuously retested to ensure reliably high protein yields.

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