PEI Coating

kat.titterton [1]

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kat.titterton

PEI coating 96 and /or 384 wps for highly adherent NGN2 iN replating on DIV3

Based on SOP from Max+ Bobby / Background optimization results

Also refer to: https://www.protocols.io/view/pei-laminin-coating-b5y8q7zw

kat.titterton 2022. PEI Coating. **protocols.io**
https://protocols.io/view/pei-coating-b5y9q7z6

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PEI Stock Prep (1x)

1 Add **500 mg** of Polyethylenimine (branched) **Sigma Aldrich Catalog #408727-100ML** to a 50mL conical tube.

PEI stock is an extremely high viscosity liquid. To weigh, Torr a liquid vessel of appropriate volume and use an object to 'stick' goopy PEI on the side to weigh.

2 Add **30 mL** of

Gibco™ Distilled Water **Gibco - Thermo Fischer Catalog #15-230-170** to the tube

3 Heat the PEI solution t0 ~ **37 °C** on beads. Mix intermittently until PEI is dissolved.

> PEI takes a while to go into solution: Shake conical and/or bottle vigorously ever 5-10 min. Takes at least 30 min to fully into solution. Can use hot water directly from tap as a bath to speed up heat transfer.

4 Add Gibco™ Distilled Water **Gibco - Thermo Fischer Catalog #15-230-170** to bring volume up to **45 mL** . Mix again.

5 Filter-sterilize: pour concentrated PEI solution into a 500mL filter flask.

FOR 1x stock final [PEI] = **1 mg** / **1 mL** : Add Gibco™ Distilled Water **Gibco - Thermo Fischer Catalog #15-230-170** to bring volume up to 500mL.

6 Aliquot PEI solution into 50mL conicals. Use immediately or proceed to step 7

7 Store in **-20 °C** freezer #13 shelf #9