

5x siRNA Buffer

This protocol is for the 5x siRNA Buffer.

Materials for 100 mL 5x siRNA Buffer

Consumables

1. 100 mL sterile bottle or flask.
2. 15 mL conical tube.

Chemicals

1. RNase-free water.
2. Potassium chloride.
3. HEPES (free acid).
4. Magnesium chloride 6H₂O.
5. Potassium hydroxide pellets.

Procedure

1. Prepare 5x siRNA buffer in a sterile 100 mL tube:
 - a. 30 mL RNase-free water.
 - b. 2.24 g potassium chloride.
 - c. 0.72 g HEPES (free acid).
 - d. 0.02 g magnesium chloride 6H₂O.
2. Prepare fresh 2 M KOH in a separate 15 mL conical tube:
 - a. 1.2 g potassium hydroxide pellets.
 - b. 10 mL of RNase-free water.
3. Use the 2 M KOH for adjusting the pH of the 5x siRNA buffer from step 1.
4. The pH should be between 7.3-7.6.
5. Add sterile RNase-free water and mix to a final volume of 100 mL.
6. Sterile filter or autoclave the solution. Store the solution at 4 °C for 3 months.

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