



Aqueous adenine solution preparation

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ABSTRACT

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Protocol status: In
development
We are still developing and
optimizing this protocol

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Prepare a 10 mM adenine solution in water as follows:

- 1** Weigh out 0.13513 g of adenine.
- 2** Transfer the adenine to an Erlenmeyer flask and add an appropriate solvent like distilled water or a biological buffer (amount of solvent will depend on desired final concentration).
- 3** Stir the solution using a magnetic stirrer to help dissolve the adenine. If the adenine is not fully dissolving at room temperature, you can heat the solution gently in a water bath while stirring to enhance dissolution.
- 4** If there remains undissolved adenine, transfer your solution into evenly divided and balanced centrifuge tubes. Centrifuge at moderate speed (for example, 3000 to 5000 rpm) for a short period of time (around 5 to 10 minutes).
- 5** After centrifugation, a pellet of undissolved adenine may have formed at the bottom of the tube. The clearer liquid on top, or the supernatant, is your solution of dissolved adenine. Carefully pipette off the supernatant to a new container, avoiding the pellet.