



Nov 24, 2021

DAPI reconstitution and viability staining

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For the reconstitution of DAPI to make a stock solution and dilution for a working solution.

Details of viability staining volumes also provided.

Emily Stephenson 2021. DAPI reconstitution and viability staining. **protocols.io**
<https://protocols.io/view/dapi-reconstitution-and-viability-staining-b2b3qaqn>



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DAPI (Sigma Aldrich, D9542-10mg)

Filter-sterilised dH₂O

Sterile 1x PBS

Reconstitution

- 1 Add 2ml of water to the 10mg vial of DAPI to make a 14.3mM (5mg/mL) stock solution. Vortexing may be required if the powder does not dissolve with pipetting.

(Note: DAPI will not dissolve in PBS)

Add a label with the date of reconstitution and store this stock solution at 4 degrees C for 6 months.

Working Stock

- 2 Add 420uL DAPI stock to 20mL PBS to make a working solution of 300uM.

Store in the dark at 4 degrees C.

For staining

- 3 For immunofluorescence, add to fixed cells at a concentration of 300nM (i.e. 1:1000 dilution for 5 mins then wash cells in PBS 3 times.

For flow cytometry, add to live cells at a concentration of 3mM (i.e. 1:100)