

DAPI staining for nuclei and DNA

Materials

DAPI – stock 0.1 mg/ml in PBS or dH₂O.

Method

1. Dilute stock 1:100 in buffer or dH₂O.
2. Stain sample for 5-10 minutes.
3. Observe under UV excitation.

Notes

- DAPI (4',6-diamidino-2-phenylindole) specifically binds to DNA (AT) and is used for imaging nuclei and DNA in many organisms including plants, animals, bacteria and viruses.
- Excitation: UV (358 nm), emission: blue (461 nm).
- Live samples may need more DAPI than fixed samples due to membrane function.