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Glyoxal fixation of mammalian cells for immunofluorescence

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1	Works for me	Share	dx.doi.org/10.17504/protocols.io.bvcyn2xw
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ABSTRACT

This is our standard protocol for glyoxal fixation of mammalian cells grown on glass cover slips for immunofluorescence microscopy.

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MATERIALS TEXT

Standard materials to make the required buffers:

ddH20

PBS

Ethanol

Glyoxal, 40%

Glacial acetic acid

BSA

Ammonium chloride

Mountant containing DAPI

All solutions can be made up to one day in advance and stored in the fridge.

Glyoxal solution

- 2.835 ml ddH20
- 0.789 ml ethanol (absolute)
- 0.313 ml glyoxal (40% stock solution)
- 0.03 ml glacial acetic acid (100%)

Adjust the pH to 5-6 with 1M NaOH using pH paper

Quenching solution

- 0.535 mg NH4Cl

Adjust to 100ml with PBS

Blocking solution (PBS with 2.5% BSA and 0.1% Triton X-100)

- 2.5g BSA
- 1 ml Triton X-100 (10% stock solution)

Adjust to 100 ml with PBS

Antibody buffer (PBS with 1% BSA and 0.1% Triton X-100)

- 1g BSA
- 1 ml Triton X-100 (10% stock solution)

Adjust to 100 ml with PBS

Mountant with DAPI

Fix the cells 5m

1 Wash the cells with warm DMEM without FCS.

5m

Add 300µl **glyoxal solution** per well (12-well plate) and incubate on ice for 30 minutes & **On ice** © **00:30:00**, then at room temperature for 20 minutes & **Room temperature** © **00:20:00**.

3 Wash 2 times with PBS

10m