

# Fixation Buffer

Ready-to-use buffer to preserve cells prior to intracellular staining or flow cytometry

Catalog #100-1450

100 mL

## Product Description

Fixation Buffer is a formaldehyde-based reagent recommended for fixing stained cells prior to permeabilization with Intracellular Permeabilization Buffer (10X; Catalog #100-1451) for intracellular staining. This buffer can also be used for the short-term preservation of fluorescently labeled cells prior to flow cytometry analysis.

## Properties

**Stability and Storage:** Stable until expiry date (EXP) on label. Store at 2 - 8°C.

**Contains:**

- Dulbecco's phosphate-buffered saline (PBS)
- Formaldehyde (4%)

This product is hazardous. Please refer to the Safety Data Sheet (SDS).

## Directions for Use

1. Prepare a single-cell suspension of cells and aliquot into flow cytometry tubes or wells of a 96-well plate.
2. Stain cells as directed in the protocol of choice.  
NOTE: It is recommended to label cells with a fixable viability dye (e.g. GloCell™ Fixable Viability Dye Red 780 [Catalog #75007.1]) and cell surface markers prior to fixation.
3. Wash cells with 1 - 2 mL/tube or 100 - 200 µL/well of Dulbecco's Phosphate Buffered Saline with 2% Fetal Bovine Serum (Catalog #07905) or a staining buffer of choice.
4. Centrifuge cells at 300 - 400 x g for 5 minutes at room temperature (15 - 25°C). Remove and discard the supernatant.
5. Resuspend cells in 100 µL of Fixation Buffer per tube or well.  
NOTE: It is recommended that Fixation Buffer be titrated for optimal performance for each application. Fixation Buffer may be diluted with D-PBS (e.g. Catalog #37350).
6. Incubate at room temperature for 20 - 30 minutes. Protect from light.
7. Wash cells twice with 1 - 2 mL/tube or 100 - 200 µL/well of PBS with 2% Fetal Bovine Serum or a staining buffer of choice.
8. Centrifuge at 300 - 400 x g for 5 minutes at room temperature.
9. Resuspend cells in an appropriate buffer. Cells are now ready for use in downstream applications, including intracellular staining and flow cytometry analysis.  
NOTE: For intracellular staining, refer to the Product Information Sheet for Intracellular Permeabilization Buffer (10X; Document #10000025136), available at [www.stemcell.com](http://www.stemcell.com), or contact us to request a copy.

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