

Buffer Solution Recipes for Immunolabeling

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You can purchase your buffers from Corning Life Sciences or you can prepare them by following the directions below:

Recipes for 100 mL – Prepare in Volumetric Flask

Buffer Name	Composition	Recipe for 100 mL	Storage
Penetration Buffer	<ul style="list-style-type: none">• PBS• 0.2% Triton™ X-100¹• 0.3 M Glycine³• 20% DMSO⁴	<ul style="list-style-type: none">• 2.25 g Glycine• Add 20 mL 1X PBS-TX100• 20 mL DMSO• Dilute to 100 mL with ~60 mL PBS-TX10	RT
10X PTwH (10X washing buffer)*	<ul style="list-style-type: none">• 10X PBS• 2% Tween® 20²• 100 µg/mL Heparin⁵	<ul style="list-style-type: none">• 10 mg Heparin• Add 20 mL 10X PBS• 2 g Tween 20• Dilute to 100 mL with 10X PBS	4°C, 6 months. Add 0.05% sodium azide for long-term storage†
Blocking Buffer	<ul style="list-style-type: none">• PBS• 0.2% Triton X-100¹• 6% Donkey serum⁶• 10% DMSO⁴	<ul style="list-style-type: none">• 6 mL Donkey Serum• Add 10 mL PBS-TX100• Add 10 mL DMSO• Dilute to 100 mL with PBS-TX100	4°C Add 0.05% sodium azide for long-term storage†
Antibody Buffer	<ul style="list-style-type: none">• PBS• 0.2% Tween 20²• Heparin⁵• 3% Donkey serum⁶• 5% DMSO⁴	<ul style="list-style-type: none">• 3 mL Donkey serum• Add 20 mL 1X Washing buffer• Add 5 mL DMSO• Dilute to 100 mL with 1X Washing buffer	4°C Add 0.05% sodium azide for long-term storage†

*To make 100 mL of 1X washing buffer, dilute 10 mL 10X buffer with 90 mL of DI H₂O

†Sodium azide will interfere with horseradish peroxidase-based protocols, but has no effect on immunofluorescent labeling

Materials

1. Triton X-100 (Fisher Scientific BP151)
2. Tween 20 (Fisher Scientific BP337)
3. Glycine (Fisher Scientific G46)
4. DMSO (Corning 25-950-CQC)
5. Heparin (Alfa Aesar A16198)
6. Normal Donkey serum (Jackson ImmunoResearch 017-000-121)

For more specific information on claims, visit the Certificates page at www.corning.com/lifesciences.

Warranty/Disclaimer: Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures. Not for use in humans. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications.

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