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Tris-Buffered Saline (TBS)

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ABSTRACT

Tris-buffered saline (TBS) is a buffer used in certain biochemical techniques to keep the pH within a limited range. This formulation has an approximate sodium chloride concentration of 150 mM and a tris concentration of 50 mM. The pH of the buffer is adjusted to 7.6. TBS is frequently formulated with a detergent such as Tween-20 for staining applications such as Western blotting. As a surfactant, Tween-20's function is to dissolve the surface tension between the membrane and the solution, ensuring complete membrane surface area wetting.

MATERIALS

Bottles

Canonical tubes

Scale

Magnetic mixer

Refrigerator

Freezer

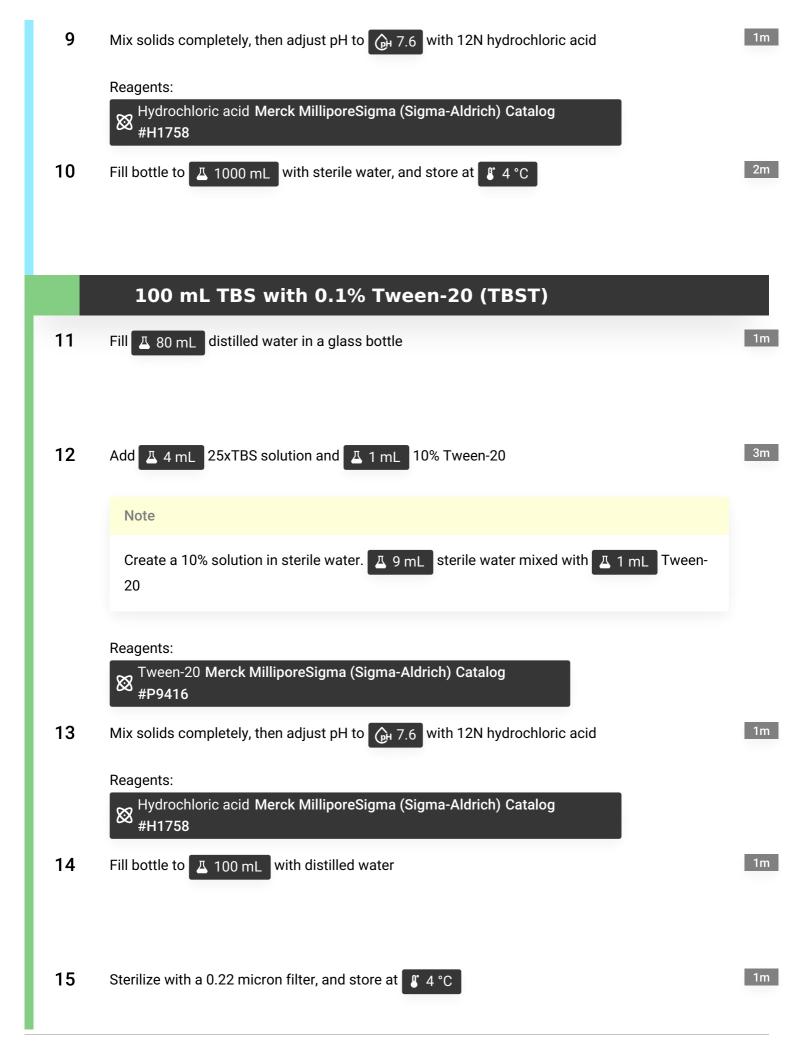
1 000 mL 25xTBS

1

Fill A 800 mL distilled water in a bottle

2m





100 mL 5% Non-fat dry milk (NFDM) in 1xTBST

16 Measure 1 g Non-fat dry milk (NFDM) in a glass bottle Reagents: Skim Milk Powder Merck MilliporeSigma (Sigma-Aldrich) Catalog #70166 Fill bottle to 🗸 100 mL with 1xTBST 17 18 Sterilize with a 0.22 micron filter, and store at 3 4 °C 19 Measure A 1 g BSA in a glass bottle Reagents: Bovine Serum Albumin Merck MilliporeSigma (Sigma-Aldrich) Catalog #A7906 Fill bottle to 4 100 mL with 1xTBST 20 21 Sterilize with a 0.22 micron filter, and store at 4 °C