

SOP-P018

Preparation of Stock 0.4 M Magnesium Sulfate

Objective: To prepare a stock solution of magnesium sulfate for use in preparation of HBSS buffers

Procedure:

1. Measure out 90 ml Millipore filtered water in a graduated cylinder.
2. Pour the water into a clean beaker containing a stir bar.
3. While stirring gently using a magnetic stir plate, add 9.9 g magnesium sulfate heptahydrate ($MgSO_4 \cdot 7H_2O$) to the beaker.
4. Stir until dissolved.
5. Remove the stir bar and pour the solution into a graduated cylinder.
6. Add Millipore filtered water to the solution until the volume reaches 100 ml.
7. Pour the magnesium sulfate solution into a container such as a glass bottle with cap.
8. Label the bottle with content information, date, and your initials.
9. Store refrigerated at 0-5°C. Expiration date is six months from date of preparation.

Created by: Gretchen Lawler

Verified by: _____ **Date:** _____
Print Name Sign Name