## **SOP-P001**

## **Preparation of 10x Hanks Balanced Salt Solution (HBSS)**

**Objective**: To prepare stock Hanks balanced salt solution for preparation of HBSS buffer.

## Procedure:

- 1. Measure out 400 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 stirplate, add the following to the beaker: 40.0 g sodium chloride (NaCl)
  - 2.0 g potassium chloride (KCl)
  - 0.5 g dibasic sodium phosphate, anhydrous (Na<sub>2</sub>HPO<sub>4</sub>)
  - 0.5 g sodium bicarbonate (NaHCO<sub>3</sub>)
- 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 500 ml.
- 7. Pour the 10X Hanks balanced salt 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 two months from date of preparation.

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Verified by:\_\_\_\_\_Date:\_\_\_\_\_

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