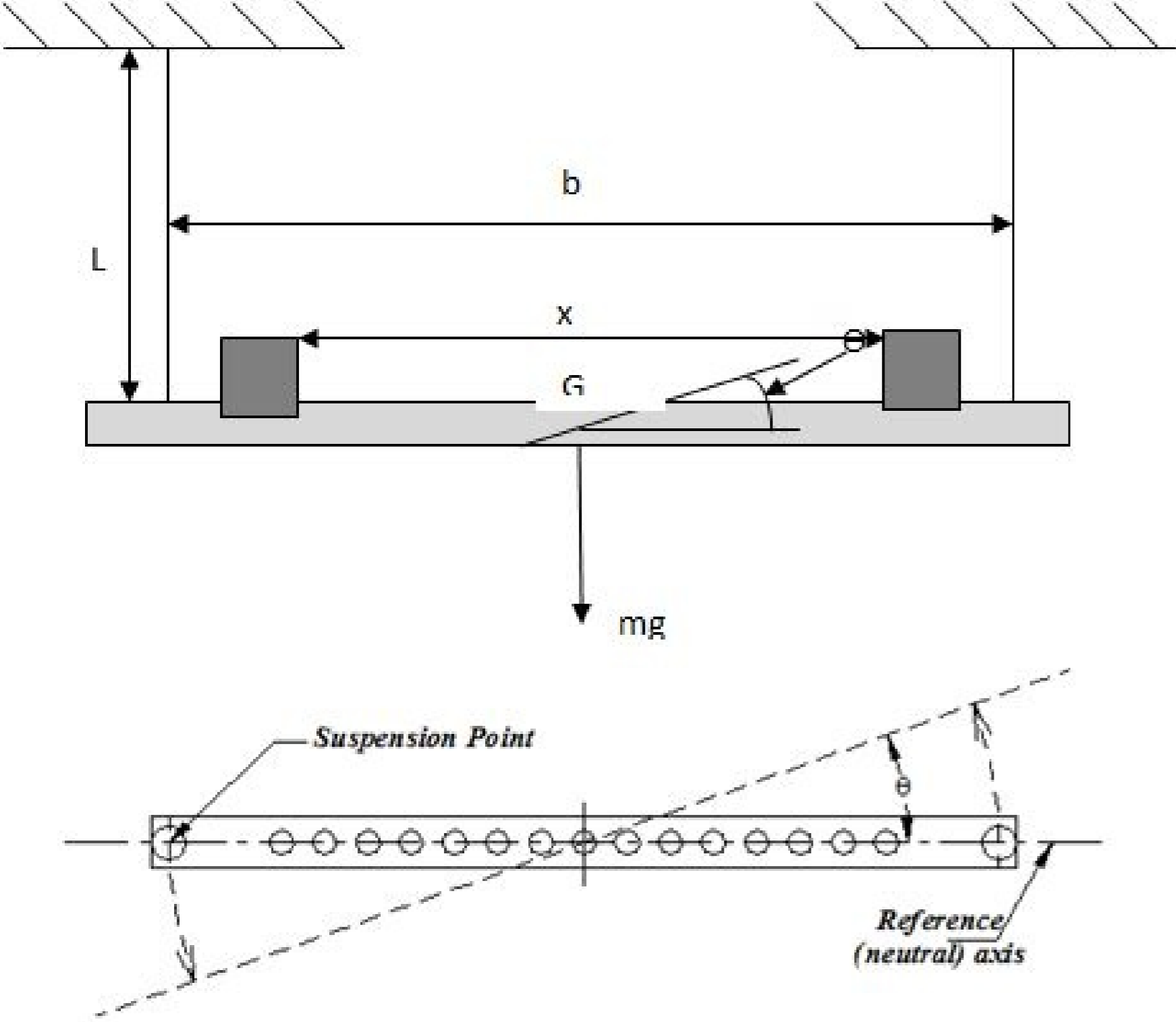


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LESSON 3: Preparation of Red Cell Suspensions with Different Concentrations

LEARNING OBJECTIVES

At the end of this lesson, the students will be able to:

1. Prepare red cell suspension with different concentrations (2%-5%)
2. Observe the proper pipetting techniques.

INTRODUCTION

Numerous procedures that is done inside the laboratory requires demonstration of antigen and antibody reactions in vitro; thus, the addition of indicator cells to the system is needed. The best example s the testing for naturally occurring ABO antibodies in the plasma donors and recipients that requires the utilization of such suspension. There are commercially available cells that are packed in different combinations, but the most common is A₁ and B combination.

Two to five percent red cell suspensions are the universally employed indicator cells displays such reactions. These suspensions are prepared by using previously washed anticoagulated blood.

A 2-5% red cell suspension is used for the following tube examination procedures:

- ABO and Rh typing
- Direct antiglobulin test and auto control
- Donor unit compatibility (crossmatch)
- Red cell phenotyping

PREPARATION OF RED CELL SUSPENSION WITH DIFFERENT CONCENTRATION

A. Materials

1. Graduated conical tubes with screw cap cover (10-mL capacity)
2. Gloves
3. Marking pen
4. Gum label
5. Centrifuge
6. Pasteur pipette
7. Test tube rack
8. Wasserman test tubes
9. Nescofilm
10. Aspirator bulb
11. Automatic pipette/serological pipette (0.1 mL/2.0 mL/5.0 mL)

EXPERIMENTAL PROCEDURE


- AIM AND OBJECTIVE OF THE EXPERIMENT:**
- 1) To demonstrate the general procedure in the preparation of indicator cell suspension.
 - 2) To demonstrate the general procedure in the preparation of red cell suspension.
 - 3) To demonstrate the general procedure in the preparation of red cell suspension.

INTRODUCTION:
 The general procedure in the preparation of indicator cell suspension is as follows:
 1. Wash the red blood cells (RBCs) by centrifuging and decanting the supernatant plasma.
 2. Wash the RBCs with distilled water to remove the plasma.
 3. Wash the RBCs with 0.9% saline solution to remove the plasma.
 4. Wash the RBCs with distilled water to remove the saline solution.
 5. Wash the RBCs with distilled water to remove the saline solution.
 6. Wash the RBCs with distilled water to remove the saline solution.
 7. Wash the RBCs with distilled water to remove the saline solution.
 8. Wash the RBCs with distilled water to remove the saline solution.
 9. Wash the RBCs with distilled water to remove the saline solution.
 10. Wash the RBCs with distilled water to remove the saline solution.
 11. Wash the RBCs with distilled water to remove the saline solution.

PREPARATION OF RED CELL SUSPENSION WITH DIFFERENT CONCENTRATION:
 The general procedure in the preparation of red cell suspension with different concentration is as follows:
 1. Wash the RBCs by centrifuging and decanting the supernatant plasma.
 2. Wash the RBCs with distilled water to remove the plasma.
 3. Wash the RBCs with 0.9% saline solution to remove the plasma.
 4. Wash the RBCs with distilled water to remove the saline solution.
 5. Wash the RBCs with distilled water to remove the saline solution.
 6. Wash the RBCs with distilled water to remove the saline solution.
 7. Wash the RBCs with distilled water to remove the saline solution.
 8. Wash the RBCs with distilled water to remove the saline solution.
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 10. Wash the RBCs with distilled water to remove the saline solution.
 11. Wash the RBCs with distilled water to remove the saline solution.

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 FAQ

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To submit your manpower for each approved General Exemption application, please click on the "Submit Details/Resubmit Details" button. For resubmissions, please note that each new submission will override all previous submissions for the approved General Exemption application. You may resubmit up to 5 times per day for each approved General Exemption application.

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