VII. APPENDIX

1. Saturated ammonium sulfate
   - Dissolved 760 g of (NH₄)₂SO₄ with 1,000 ml of distilled water.
   - Mixed with magnetic stirrer.
   - Stored at room temperature.

2. 2, 4, 10, 15, 30 and 50% polyethylene glycol 8000
   - Dissolved 2, 4, 10, 15, 30 and 50 g of polyethylene glycol 8000 with 100 ml of PBS pH 7.2.
   - Mixed well and stood for 1 hour.
   - Filtered with Whatman No. 1 and stored at 4 °C.

3. PBS pH 7.2
   - Dissolved 4.08 g of Na₂HPO₄, 1.54 g of NaH₂PO₄ and 3.04 g of NaCl with 1,000 ml of distilled water.
   - Adjusted pH to 7.2.

4. Biuret’s solution

4.1 2 N NaOH
   - Dissolved 80 g of NaOH with 1,000 ml of distilled water.
   - Stored at room temperature.
4.2 0.02 N NaOH

- Added 100 ml of 0.2 N NaOH into 900 ml of distilled water.
- Stored at room temperature.

4.3 Stock Biuret’s solution

- Dissolved 45 g of sodium potassium tartrate in 500 ml of 0.2 NaOH
- Added 15 g of cupric sulfate (CuSO₄·5H₂O) and mixed well.
- Added 5 g of potassium iodide (KI), mixed well and added 0.2 N NaOH to 1,000 ml.

5. Brom cresol green

5.1 Stock succinate buffer, 0.1 M, pH 4.0-4.15.

- Dissolved 11.9 g of succinic acid and 500 mg of sodium azide in 800 ml of distilled water.
- Adjusted pH to 4.0-4.15 with 5 N NaOH.
- Added distilled water to 1,000 ml.
- Stored at 4 °C.

5.2 Stock Brom cresol Green, 0.6 mM.

- Dissolved 419 g of Brom cresol green to 10 ml of 0.1 N NaOH.
- Added distilled water to 1,000 ml.
- Stored at 4 °C.

5.3 Working Brom cresol Green reagent

- Added 250 ml of stock Brom cresol Green to 750 ml of stock succinate buffer.
- Added 4 ml of 30% Brij-35 solution.
- Adjusted pH to 4.20 ± 0.5 with 42 mmol succinate solution.
- Stored at 4 °C.

6. 20% Na₂CO₃

- Dissolved 20 g of Na₂CO₃ with 100 ml of distilled water.
- Stored at room temperature.

7. 2% Na₂CO₃

- Added 100 ml of 20% Na₂CO₃ to 900 ml of distilled water.
- Stored at room temperature.

8. 5 NIH units/ml thrombin

- Dissolved 10 NIH units/ml thrombin (Sigma Commercial Co.) with 2 ml of distilled water.
- Stored at 4 °C.

9. 5 M urea solution

- Dissolved 30 g of urea in 100 ml of distilled water.
- Stored at 4 °C.

10. 0.025 M CaCl₂

- Dissolved 3.68 g of CaCl₂.2H₂O with 1,000 ml of distilled water.
- Stored at room temperature.
11. 0.25 M CaCl₂

- Dissolved 36.8 g of CaCl₂·2H₂O with 1,000 ml of distilled water.
- Stored at room temperature.

12. 40 mmol/L CaCl₂

- Dissolved 5.88 g of CaCl₂·2H₂O with 1,000 ml of distilled water
- Stored at room temperature.
VIII. CURRICULUM VITAE

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