

VII. APPENDIX

1. Saturated ammonium sulfate

- Dissolved 760 g of $(\text{NH}_4)_2\text{SO}_4$ 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 Na_2HPO_4 , 1.54 g of NaH_2PO_4 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 N NaOH
- Added 15 g of cupric sulfate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$) and mixed well.
- Added 5 g of potassium iodide (KI), mixed well and added 0.2 N NaOH to 1,000 ml.

5. Bromocresol 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 Bromocresol Green, 0.6 mM.

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

5.3 Working Bromocresol Green reagent

- Added 250 ml of stock Bromocresol 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% Na_2CO_3
- Dissolved 20 g of Na_2CO_3 with 100 ml of distilled water.
 - Stored at room temperature.
7. 2% Na_2CO_3
- Added 100 ml of 20% Na_2CO_3 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 CaCl_2
- Dissolved 3.68 g of $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ with 1,000 ml of distilled water.
 - Stored at room temperature.

11. 0.25 M CaCl_2

- Dissolved 36.8 g of $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ with 1,000 ml of distilled water.
- Stored at room temperature.

12. 40 mmol/L CaCl_2

- Dissolved 5.88 g of $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ with 1,000 ml of distilled water
- Stored at room temperature.

VIII. CURRICULUM VITAE

NAME Nutjeera Intasai

DATE OF BIRTH March 11, 1973

PLACE OF BIRTH Chiang Rai, Thailand

INSTITUTION ATTENDED Faculty of Associated Medical Sciences,
Chiang Mai University, Chiang Mai
March, 1995 : Bachelor of Science
(Medical Technology)

PUBLICATIONS

1. Tositarat T, Intasai S, Chanarat P. Platelet function of aging. *Bull Chiang Mai Assoc Med Sci* 1997; 32 (suppl. 1): S70-S74.
2. Intasai N, Chanarat P. Case discussion: Abnormal low red blood cell count and high MCHC. *Bull Chiang Mai Assoc Med Sci* 1998; 31: 147-50.
3. Intasai N, Chanarat P. Case discussion: Acute leukemia. *Bull Chiang Mai Assoc Med Sci* 1999; 32: 187-93.