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# APPENDICES

## APPENDIX A

### 1. REAGENTS FOR PLASMID PREPARATION

#### 1.1. Lysis solution : 10 ml

- 50 % Glucose	2 ml
- 0.5 M EDTA	0.2 ml
- 1 M Tris-HCl ( pH 8.0 )	0.25 ml
- ddH <sub>2</sub> O	7.55 ml

#### 1.2. Alkaline SDS solution : 10 ml

- 5 % SDS	2 ml
- 5 N NaOH	0.4 ml
- ddH <sub>2</sub> O	7.6 ml

#### 1.3. High salt solution : 3 M Sodium acetate ( pH 5.2 )

- NaOAc . 3H <sub>2</sub> O	408.1 g
- ddH <sub>2</sub> O	700 ml

Adjust pH to 5.2 with glacial acetic and adjust volume to 1 litre with water.

### 2. OTHER REAGENTS FOR PREPARATION

#### 2.1. RNase solution

-Dissolve Rnase A (pancreatic ) at a concentration of 10 mg/ml in 10 mM

Tris-HCl ( pH 7.5 ), 15 mM NaCl, then heat to 100 °C, 15 min and Cool slowly at room temperature, aliquot, store at -20 °C.

#### 2.2. 10% Glycerol

Glycerol	10 ml
Water	90 ml

#### 2.3. 5x TBE buffer ( For agarose gel electrophoresis )

Tris-base	54 g
Boric acid	27.5 g
0.5 M EDTA ( pH 8 )	20 ml



**2.4. 0.5M EDTA**

EDTA	186.1 g
Water	1000 ml

Dissolve EDTA in 800 ml water and adjust pH to 8.0 with NaOH before adjust volume to 1 litre, autoclave.

**2.5. 1M Tris-HCl**

Tris-base	121.1 g
Water	1000 ml

\* Adjust pH to 7-8 before adjust volume to 1 litre, autoclave.

**2.6. 5% SDS (store at room temperature)**

SDS	5 g
Water	100 ml

**2.7. 5N NaOH**

NaOH	20 g
Water	100 ml

Dissolve NaOH in 70 ml water before adjust volume to 100 ml

**2.8. Loading buffer (For agarose gel electrophoresis)**

Glycerol	20 ml
Bromphenol blue	4 mg
Water	80 ml

**2.9. Lowry's solution****2.9.1. Solution A**

$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	5 g
$\text{Na}_3\text{C}_6\text{H}_5\text{O}_7 \cdot 2\text{H}_2\text{O}$	1 g

**2.9.2. Solution B**

$\text{Na}_2\text{CO}_3$	20 g
NaOH	4 g

**2.9.3. Solution C**

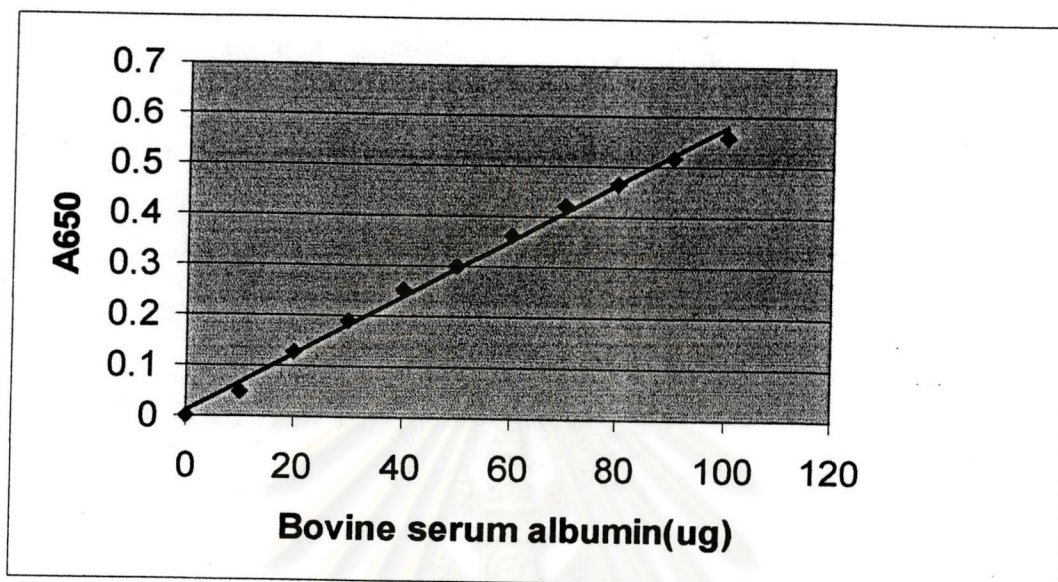
Solution A	1 ml
Solution B	50 ml

**2.9.4. Solution D**

Folin-Ciocalteu phenol reagent	10 ml
Distilled water	10 ml

**APPENDIX B**

Standard curve for protein determination by Lowry's method



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## **BIOGRAPHY**

Miss Nattida Chotechuang was born on June 19, 1981. She graduated with the Bachelor Degree of Science in Biochemistry from Chulalongkorn University in 2001. Then, continued studying for Master of Science in Biochemistry Program, Faculty of Science, Chulalongkorn University since 2002.



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