

## APPENDIX

### A) Medium for bacterial culture

#### 1) Todd-Hewitt broth (THB)+1% neopeptone

( (30 mg/ml) THB, 1% neopeptone)

THB	30	g
neopeptone	10	g
distilled water to	1000	ml

Sterile at 121-124°C for 15 min.

### B) Solution for DNA preparation

#### 1) 20% SDS

SDS	5	g
Sterile distilled water	25	ml

Adjust pH to 7.2 with HCl. Kept at room temperature.

#### 2) Proteinase K

10 mg/ml of proteinase K is dissolved in sterile distilled water, dispensed into aliquots and stored at -20°C.

#### 3) Saturated sodium chloride

6 M NaCl is dissolved in distilled water and stirred on hot plate. Sterile by autoclaving and stored at room temperature.

## 4) Lysozyme

(100  $\mu\text{g/ml}$  lysozyme)100  $\mu\text{g/ml}$  of lysozyme is dissolved in sterile distilled water.Dispensed into aliquots and stored at  $-20^\circ\text{C}$ .

## 5) Tris-HCl/EDTA (TE) pH 8.0

(10 mM Tris-HCl pH 8.0, 0.1 mM EDTA)

1 M Tris-HCl pH 8.0	10	ml
---------------------	----	----

0.5 M EDTA	0.2	ml
------------	-----	----

Sterile distilled water to	1000	ml
----------------------------	------	----

Mix thoroughly and stored at room temperature.

6) Phosphate buffer *saline* (PBS)(1.9 mM  $\text{NaH}_2\text{PO}_4$ , 8.1 mM  $\text{Na}_2\text{HPO}_4$ , 154 mM  $\text{NaCl}$ )

$\text{NaH}_2\text{PO}_4$	0.23	g
---------------------------	------	---

$\text{Na}_2\text{HPO}_4$	1.15	g
---------------------------	------	---

$\text{NaCl}$	9.00	g
---------------	------	---

Sterile distilled water to	1000	ml
----------------------------	------	----

Adjust pH to 7.4 with 10%  $\text{NaOH}$  or 1N  $\text{HCl}$ . Sterile by autoclaving and stored at room temperature.

## C) Solution for electrophoresis and DNA detection

## 1) (10x) TBE stock solution

(0.89M Tris base, 0.89 M boric acid)

Tris-base	108	g
-----------	-----	---

Boric acid	55	g
------------	----	---

0.5 M EDTA pH 8.0	40	ml
-------------------	----	----

Distilled water to 1000 ml

Mix thoroughly, autoclaved and stored at room temperature.

2) Ethidium bromide (0.5 mg/ml)

Ethidium bromide 0.005 g

Sterile distilled water to 10 ml

Mix thoroughly until dissolve. Store at room temperature in the dark.

**CURRICULUM VITAE**

NAME	Miss Piyaorn Samerwong
DATE OF BIRTH	February 24, 1970
PLACE OF BIRTH	Chiangmai, Thailand
INSTITUTION ATTENDED :	
1987	Cert. In Mathayom VI., Yupparaj College Chiangmai, Thailand
1991	B.N.S (nursing), Chiangmai University, Chiangmai, Thailand