

VIII. APPENDIX

1. 50X Tris-acetate buffer (TAE)

Tris base	242	gm
Glacial acetic acid	57.1	ml
0.5 M EDTA, pH 8.0	100	ml
Distilled water	to 1	liter

2. 50X Tris-borate (TBE)

Tris base	108	gm
Boric acid	55	gm
0.5 M EDTA, pH 8.0	40	ml
Distilled water	to 1	liter

3. Loading buffer 6X

Bromphenol blue	0.25	%
Glycerol	30	%

4. Ethidium bromide (10mg/ml)

Ethidium bromide	1.0	gm
Distilled water	100	ml

5. 2% Agarose gel

Agarose	2.0	gm
0.5X TAE	100	ml

6. 20% polyacrylamide gel

Acrylamide	5 gm
N'-N'-bis-acrylamide	5 gm
- Dissolve in distilled water and fill up to 500 ml	
- Sterilize by filtration	

7. 6% polyacrylamide gel

20% polyacrylamide (stock)	3 ml
10X TBE Buffer	1 ml
Distilled water	9 ml
TEMED	3 μ l
10% Ammonium persulphate	100 μ l

8. 1Kb ladder marker

Stock 1 Kb	5 μ l
6X Loading	10 μ l
Distilled water	45 μ l

9. 50Kb ladder marker

Stock 50 bp	5 μ l
6X Loading	10 μ l
Distilled water	45 μ l

10. 10X PCR buffer

KCl	500 mM
Tris-HCL (pH 8.3)	100 mM

11. MgCl_2 50 mM

Mg Cl_2	479 mg
Distilled water	100 ml.

12. 3M Sodium acetate (NaOAc) pH 4.6

Sodium acetate	4.08 gm
- Dissolve in distilled water	e.q.
- Adjust to pH 4.6 by 1 N HCl	
- Adjust the final volume with distilled water to 10 ml	

13. LB Medium/liter

Tryptone	10 gm
Yeast extract	5 gm
NaCl	10 gm
Distilled water	to 1 liter
- Adjust pH to 7.0	
- For agar plate, add 15 gm/liter agar.	

IX. CURRICULUM VITAE

Name	Mrs. Kanlaya Wongworapat
Date of Birth	January 1,1956
Education	
March 1974	Certificate of Mathayom Suksa V Wattanothai Payap School, Chiang Mai
March 1978	Bachelor of Science in Medical Technology, B.Sc. (Med.Tech.) Faculty of Associated Medical Sciences, Chiang Mai University