

# ลิขสิทธิ์มหาวิทยาลัยเชียงใหม

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#### APPENDIX A

# REAGENTS AND BUFFERS PREPARATION

## 1. Commonly used stock solutions

# 1 M Tris-HCl (pH 8.0)

Tris base

121.1 g

- Dissolve in 800 ml distilled water
- Adjust the pH to 8.0 by adding concentrated HCl
- Adjust the volume to 1 liter with distilled water
- Sterilize by autoclaving and store at room temperature

## 0.5 M EDTA (pH 8.0)

Disodium Ethylenediaminetetra acetate 2H,O

- Dissolve in 800 ml distilled water
- Adjust the pH to 8.0 by adding NaOH
- Adjust the volume to 1 liter with distilled water
- Sterilize by autoclaving and store at room temperature

#### 10 % SDS

Sodium dodecyl sulfate

1 ml

186.1 g

Distilled water

100 ml

## 2. Reagents for Electrophoresis

#### 50X Tris-acetate Buffer (TAE)

Tris base	242	g
Glacial acetic acid	57.1	ml
0.5 M EDTA (pH 8.0)	100	ml

- Dissolve in 1 liter distilled water
- Sterilize by autoclaving and store at room temperature

# 5X Tris-borate Buffer (TBE)

Tris base 54 g

Boric acid 27.5 g

0.5 M EDTA (pH 8.0) 20 ml

- Dissolve in 1 liter distilled water
- Sterilize by autoclaving and store at room temperature

#### 6X gel loading buffer

Bromophenol blue 0.25 %
Glycerol 30 %

Mixed thoroughly and keep at -20°C

#### 10 mg/ml Ethidium bromide

Ethidium bromide

- Dissolve in 100 ml distilled water
- Stir on a magnetic stirrer to ensure that the dye has dissolved
- Wrap the container in aluminum foil and store at room temperature

#### 1% agarose gel

LE agarose 1 g
0.5X TAE 100 ml

## 2% agarose gel

LE agarose 2 g
0.5X TAE 100 ml

## 3% agarose100 gel

Agarose1000 3 g 0.5X TAE 100 ml

#### 1 Kb Plus DNA Ladder

1 μg/μl 1 Kb Plus DNA Ladder<sup>TM</sup> (Gibco BRL, USA) 5 μl

6X gel loading buffer 10 μl

Distilled water 45 µl



#### **CURRICULUM VITAE**

Name

Naowarat Kunyanone

Date of birth

January 23, 1971

Place of birth

Chiang Rai, Thailand

**Education** 

1988

Certificate of senior high school

Samakkee wittayakom school, Chiang Rai

1993

Bachelor of Science in Medical

Technology, B.Sc. (Med. Tech.)

Faculty of Associated Medical Sciences

Chiang Mai University

#### Scholarships Received

2001

Graduate Research Scholarships,

Ministry of University Affairs, Thailand

#### **Publications**

Yoshiyama T, Supawitkul S, Kunyanone N, Rienthong D, Yanai H, Abe C, Ishikawa N, Akarasewi P, Payahandana V, Mori T. Prevalence of drug-resistant tuberculosis in on HIV endemic area in northern Thailand. Int J Tuberc Lung Dis 2001; 5: 32-39.