

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright[©] by Chiang Mai University All rights reserved

APPENDIX A

Nucleotide ambiguity codes

Code	Represents	Complement
A	A	Т
C	C	G
G	G	С
T	T	A
M	A or C	К
R	A or G	Y
w	A or T	W
S	C or G	S
Y	C or T	R
K	G or T	M
V	A or C or G	В
Н	A or C or T	D
D	A or G or T	Н
i _B	C or G or T	Mai Lyniv
X/N	A or C or G or T	X/N
	not A, C, G or T	

APPENDIX B

STOCK SOLUTION

1. TE buffer, pH 8.0

10 mM Tris-HCl, pH 8.0

1 mM EDTA, pH 8.0

2. TAE electrophoresis buffer

50x stock solution, pH~8.5

242 g Tris base

57.1 ml glacial acetic acid

37.2 g Na₂EDTA-2H₂O

H₂O to 1 liter

3. Gel loading buffer

20% (w/v) glycerol

1 mg/ml (w/v) bromphenol blue

1 mM EDTA

4. Solution D

4 M guanidine thiocyanate

25 mM sodium citrate, pH 7.0

0.5% N-lauroylsarcosine

APPENDIX C

Phenol-chloroform extraction

Bacteria growth in Brain heart Infusion broth 100 μ l + D-solution 500 μ l

IJ

mix and stand for at least 5 min

11

add equal volume of Chloroform 100-150 μl and Phenol 100-150 μl , mix

U

centrifuge 13,000 rpm, 5 min

11

use supernatant \sim 500 μ l + 2X volume of absolute Ethanol (\sim 1 ml)

Ш

gently mix (up side down) and freeze at -80°c, 30 min

11

centrifuge 13,000 rpm, 10 min

П

discard supernatant (gently rinse)

П

2x wash with 75% Ethanol

Ш

centrifuge 13,000 rpm, 5 min

1

dry by air

1)

dilute with TE buffer (pH 8.0) 50 μl ,use as DNA template

CURRICULUM VITAE

Name Mr. Nattawooti Sthitmatee

Work Position Instructor, Clinic for Food Animal,

Department of Food Animal Clinic,

Faculty of Veterinary Medicine,

Chiang Mai University

Address Faculty of Veterinary Medicine,

Chiang Mai University,

Mae Hia, Muang, Chiang Mai 50100, Thailand

Phone: 66-53-948002

Fax: 66-53-274710

E-mail address <u>Drneaw@yahoo.com</u>, <u>Drneaw@hotmail.com</u>

Home Address 239/35 Ang-kaew Dormitory, Huay Kaew Road,

Suthep, Muang, Chiang Mai 50200, Thailand

Marital Status Single

Date of Birth November 3, 1976

Citizen Thai

Religion Buddhist

Second Language English

Education

1982-1988 Certificate of Primary Education,

Pakthongchai "Choonhawan" Wittayakarn School,

Nakhon Ratchasima, Thailand

1988-1991 Certificate for Secondary Education (grade 7-9),

Ratchasima Wittayalai School,

Nakhon Ratchasima, Thailand

1991-1993 Certificate for Secondary Education (grade 10-12),

The Institute for Non-Formal Education Standard,

Nakhon Ratchasima, Thailand

1993-1999 Doctor of Veterinary Medicine (D.V.M.),

Faculty of Veterinary Medicine, Kasetsart University,

Bangkok, Thailand

2001-present Master's Degree Student in Health Science Program

(International course), Faculty of Graduate School,

Chiang Mai University, Chiang Mai, Thailand

Professional Career

1999 Thonburi Animal Hospital, Bangkok, Thailand

1999-2000 Jusco-Ratchada Animal Clinic, Bangkok, Thailand

1999-2000 Veterinary Teaching Hospital,

Faculty of Veterinary Medicine,

Kasetsart University, Bangkok, Thailand

2000-present Instructor, Swine clinic, Clinic for Food Animal,

Department of Food Animal Clinic,

Faculty of Veterinary Medicine,

Chiang Mai University, Chiang Mai, Thailand

Awards/Scholarship

2001-present Ministry of University Affair Fund

Professional Qualification

1999-present Life Member of The Thai Veterinary Association under

Royal Patronage

2001-present Life Member of The Faculty of Veterinary Medicine,

Kasetsart University Alumni

2002-present

First class certificate for veterinary practitioner,

The Royal Thai Veterinary Council

2002-present

Member of The Thai Veterinary Diagnostic Association

Professional Training and Seminar

1999

The Second Small Animal Refreshing Course

at Nong-Po Veterinary Teaching Hospital,

Faculty of Veterinary Medicine, Kasetsart University

1999

Joint and Orthopedics Management in Small Animal,

Faculty of Veterinary Medicine, Kasetsart University

2000

Introduction to Swine Artificial Insemination

Center of Livestock Promotion, Chiang Mai

2000

Efficiency of soybean for increasing swine production

Faculty of Veterinary Medicine, Chiang Mai University

2001

Introduction to Risk Analysis,

Faculty of Veterinary Medicine, Chiang Mai University

2001

Cloning DNA and Virus,

Faculty of Veterinary Medicine, Kasetsart University

2001

In situ hybridization and Immunohistochemistry technique,

Faculty of Veterinary Medicine, Kasetsart University

2001

Workshop on "Epidemiology and Its Application"

Research Institute in Health Sciences, Chiang Mai University

International Professional Training and Seminar

2000

International Conference : Consumer Safety and Residues in

Animal Products, Faculty of Veterinary Medicine, Chiang

Mai University