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ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

APPENDIX

ศูนย์วิทยทรัพยากร
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APPENDIX

CHEMICAL AGENTS AND INSTRUMENTS

A. Research Instruments

Automatic adjustable micropipette (Eppendorf, Germany)
Balance (Precisa, Switzerland)
Beaker (Pyrex)
Combs (BIO-RAD, USA)
DNA Thermal cycler 2400 (Perkin Elmer, Cetus USA)
Electrophoresis Chamber set (BIO-RAD, USA)
Flask (Pyrex)
Chemi Doc (BIO-RAD, USA)
Heat block (Bockel)
Parafilm (American National Can, USA)
Pipette boy (Tecnomara, Switzerland)
Pipette rack (Autopack, USA)
Pipette tip (Axygen, USA)
Plastic wrap
Polypropylene conical tube (Elkay, USA)
Power supply model
pH meter (Eutech Cybernataics)
Microcentrifuge (Eppendorf, USA)
Microcentrifuge tube (BIO-RAD, Elkay, USA)
Reagent bottle (Duran)
Spectrophotometer (BIO-RAD, USA)
Thermometer (Precision, Germany)
Vortex (scientific Industry, USA)
Water bath

B. Sample Collection Instruments

- Cover slip
- Microscope (Olympus)
- Microscope slides
- Needle (Nipro)
- Syringe (Nipro)

C. General Reagents

- Absolute ethanol (Merck)
- Acetic acid (Merck)
- Agar (Scharlau)
- Agarose (USB, Spain)
- Ampicillin (M&H manufacturing)
- Bromphenol blue (Sigma, USA)
- Chloroform (Merck)
- Disodium ethylenediamine tetraacetic acid: EDTA (Merck)
- Ethidium bromide (Sigma)
- Glycogen (USB, Japan)
- Glucose (Merck)
- Glycerol (Pharmacia Amersham)
- Hydrochloric acid (Merck)
- IPTG (USB)
- Isoamyl alcohol (Merck)
- Phenol (Sigma, USA)
- Sodium acetate (Merck)
- Proteinase K (Pharmacia Amersham)
- Sodium hydroxide (Merck)
- Sucrose (Sigma, USA)

Tris base (USB)
 Triton X-100 (Sigma, USA)
 Tween 20 (Sigma, USA)
 Yeast extract (Scharlau)
 100 bp DNA ladder (NEB)

D. Histochemical Stain Reagents

Conc. Hydrochloric acid (Merck)
 Naphthol AS-TR phosphate, Sodium sult (Sigma, USA)
 N,N-dimethyl formamide (Sigma, USA)
 Parasoniline hydrochloride (Sigma, USA)
 Sodium acetate (Merck)
 Sodium barbital (Merck)
 Sodium nitrate (Sigma, USA)

E. Reagents of PCR

10X PCR buffer (500 mM KCl, 200 mM Tris-HCl pH 8.4, 15 mM MgCl₂)
 (Pharmacia Amersham)
 Deoxynucleotide triphosphates (dNTPs) (Promega)
 Oligonucleotide primer (BSU)
Taq DNA polymerase (Amersham Pharmacia)

F. Restriction endonuclease

Table 2: Restriction enzyme *Ase I* with its recognition site, recommended buffer and manufacturer.

Enzymes	Recognition sequence	Buffer	Manufacturer
<i>Ase I</i>	5'..AT [^] TAAT..3'	NEBuffer 3	New England Biolabs

NOTE: ^ represent the cleavage site of restriction enzyme

G. Reagent of DNA Sequencing

ABI PRISMTM Dye Terminator Cycle Sequencing Ready Reaction kit with
AmpliTaq[®] DNA Polymerase FS, (Perkin-Elmer, USA)

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จุฬาลงกรณ์มหาวิทยาลัย

BIOGRAPHY

Name	Miss Alisa Junpee	Sex	Female
Birth date	Nov 22, 1979	Age	24
Nationality	Thai		
Place of birth	Nakhonsi-thammarat, Thailand		
Home address	<p>1016/6 Aor Por Ror Buiding Filariasis center Faculty of Medicine Chulalongkorn University Bangkok 10330, Thailand</p>		

Education

2000 : Degree of Bachelor of Science (Medical Technology)

Publications

1. Nuchprayoon S, Yentakam S, Sangprakarn S, **Junpee A.** Endemic bancroftian filariasis in Thailand: detection by Og4C3 antigen capture ELISA and the polymerase chain reaction. Journal of the Medical Association of Thailand 2001; 84(9): 1300-7.
2. Nuchprayoon S, Sangprakarn S, **Junpee A**, Nithiuthai S, Chungpivat S, Poovorawan Y. Differentiation of *Brugia malayi* and *Brugia pahangi* by PCR-RFLP of ITS-1 and ITS-2. Southeast Asian Journal of Tropical Medicine and Public Health 2003; 34 (Suppl 2): 67-73.
3. Nuchprayoon S, Porksakorn C, **Junpee A**, Sanprasert V. 2003 Comparative Assessment of the Og4C3 ELISA to ICT Filariasis Test: A study in Myanmar migrants of Thailand. Asian Pacific Journal of Allergy and Immunology. [in press]

Abstracts and presentations

1. Nuchprayoon S, Sangprakarn S, **Junpee A**, Nithiuthai S, Poovorawan Y. Differentiation of *Brugia malayi* and *Brugia pahangi* by PCR-PFLP ITS1 and ITS 2. Joint International Tropical Medicine Meeting 2002. The 8th Chamlong-Tranakchit Harinasuta Lecture 20-22 November 2002, Montien Riverside Hotel, Bangkok, Thailand
2. Nuchprayoon S, **Junpee A**, Sanprasert V. Filariasis in Myanmar migrant workers in Thailand. Chulalongkorn university exhibition 2002. 6-9 November 2002, Chulalongkorn university, Bangkok, Thailand
3. Nuchprayoon S, **Junpee A**, Nithiuthai S, Chungpivat S, Poovorawan Y. 2003 Detection of filarial parasites in domestic cats by PCR-RFLP of ITS1. The 4th Seminar on Food-and Water-borne Parasitic Zoonoses Second International Meeting on Gnathostomiasis. Joint International Tropical Medicine Meeting 2003. 2-4 December 2003, Siam City Hotel, Bangkok, Thailand

