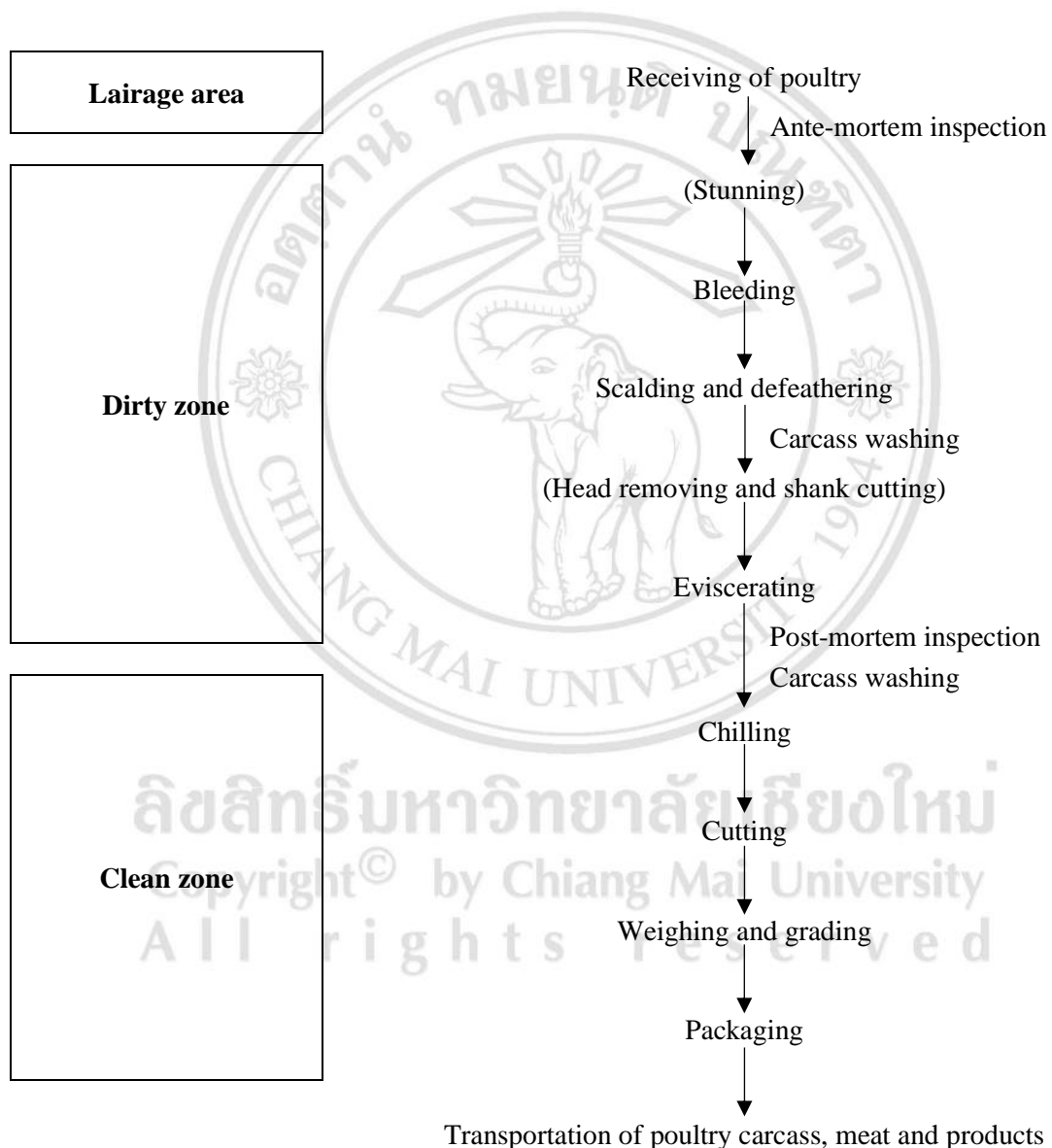


APPENDIX A

Flowchart of standard processing steps

(Thailand Ministry of Agriculture and Cooperatives, 2006)



Note: Stunning, head removing and shank cutting steps can be omitted where necessary or appropriate.

APPENDIX B

Composition and preparation of reagent

Phosphate buffered saline (PBS)

1,000 ml of 1X phosphate buffered saline (PBS)

Composition

Sodium chloride	8.0 g
Potassium chloride	0.2 g
Disodium hydrogen phosphate	1.44 g
Potassium dihydrogen phosphate	0.24 g
Distilled water	1,000 ml

Preparation

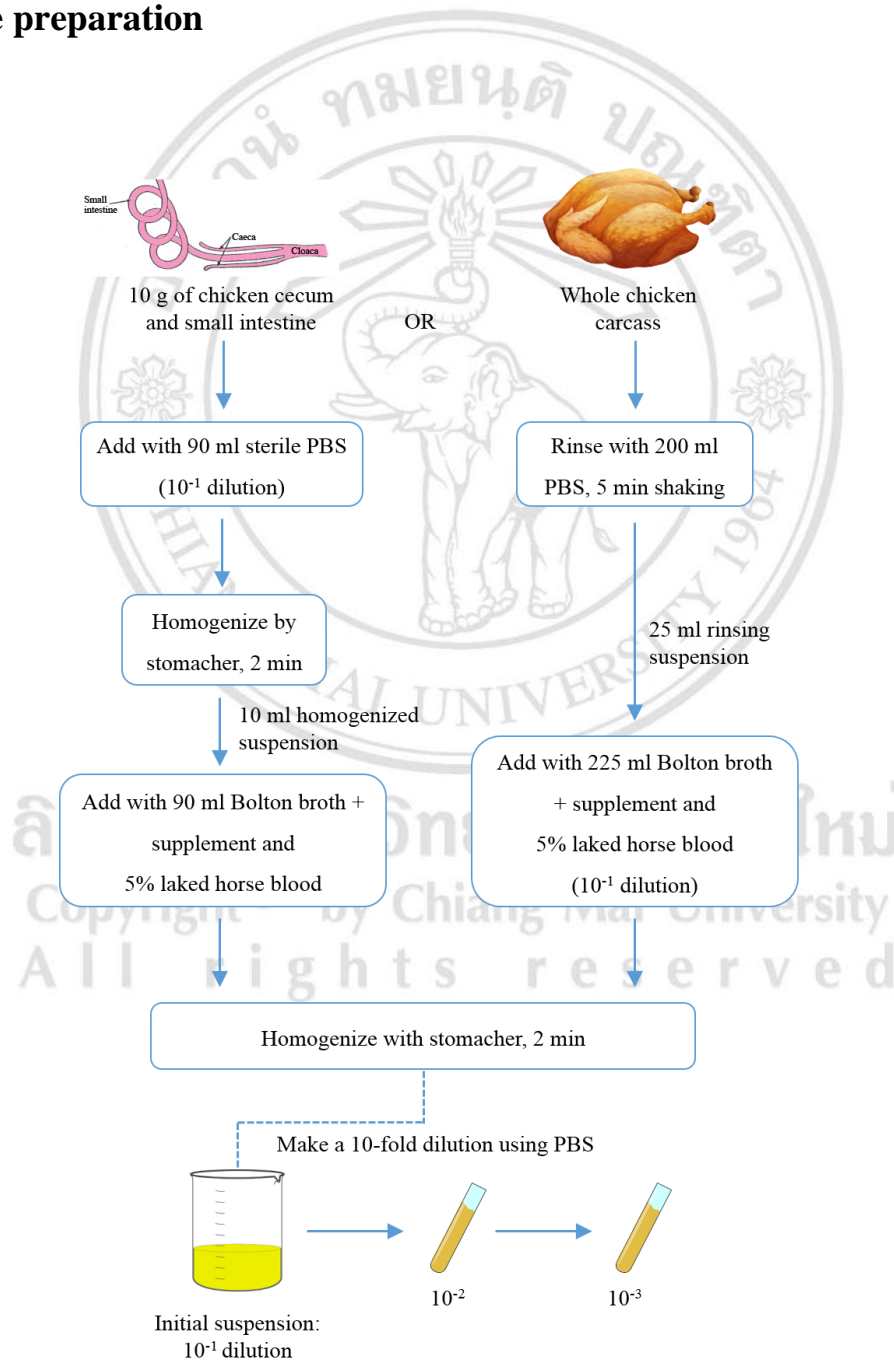
Dissolve the components in distilled water. Adjust the pH, if necessary, so that after sterilization it is 7.4 ± 0.2 at 25 °C. Dispense the basic medium into glass bottle. Sterilize in the autoclave set at 121 °C for 15 min.

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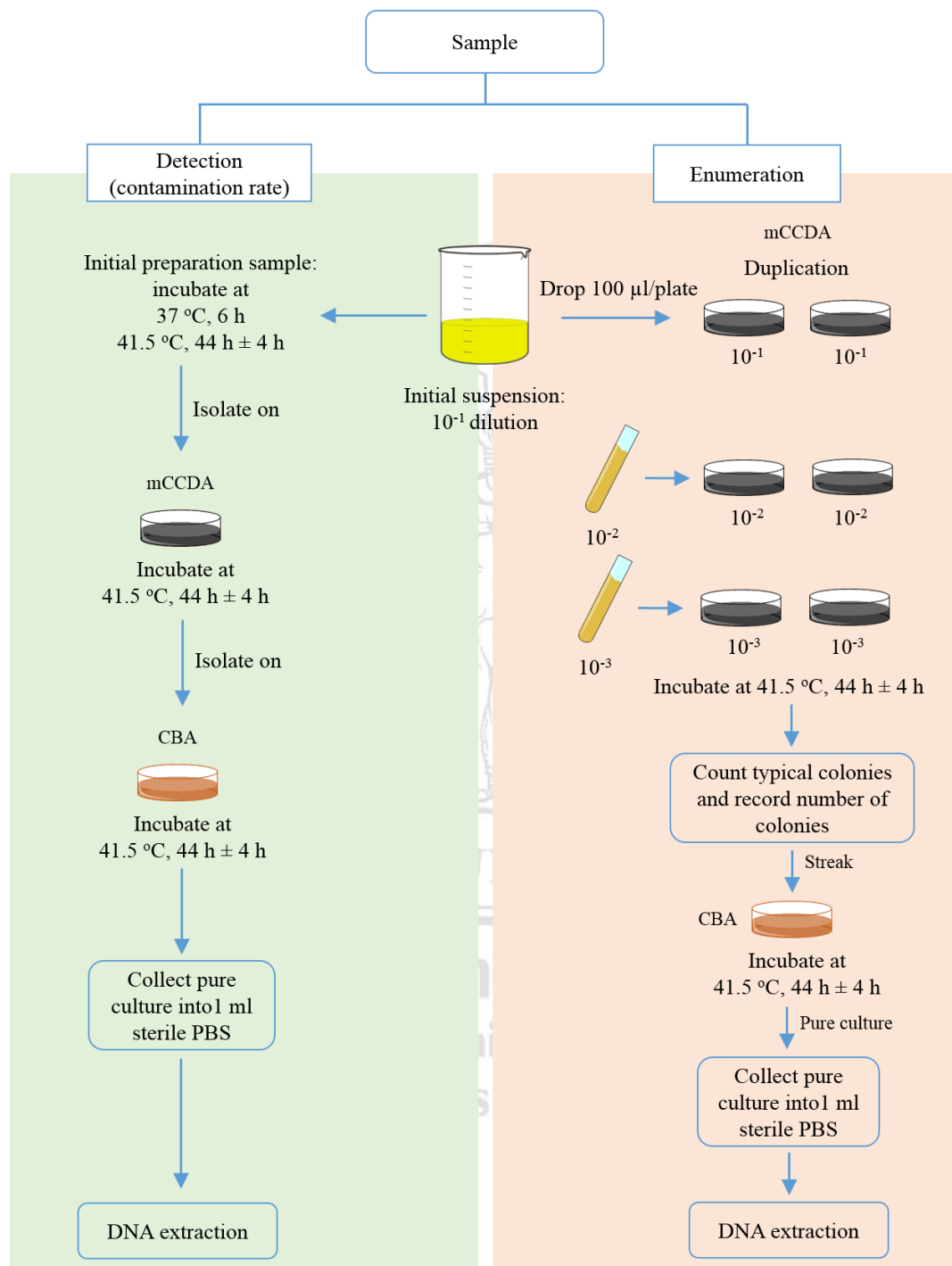
APPENDIX C

Laboratory procedures

Sample preparation

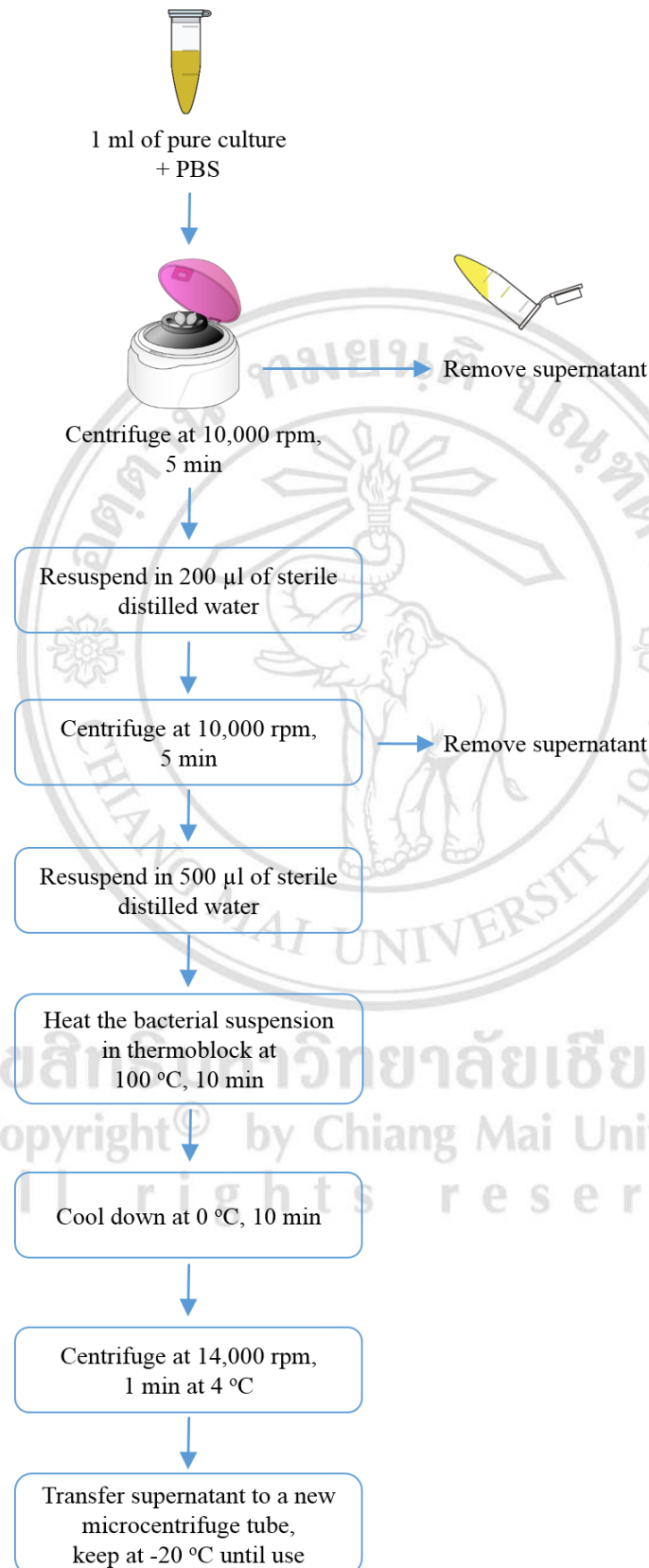


Procedures of *Campylobacter jejuni* detection and enumeration using direct counting method



After confirmation with multiple PCR, all samples positive to *Campylobacter jejuni* are recorded. For enumeration, positive isolates are traced back to number of colonies recorded at the beginning and level of *C. jejuni* of each sample are reported in the unit of log CFU/g or log CFU/ml.

DNA extraction procedure



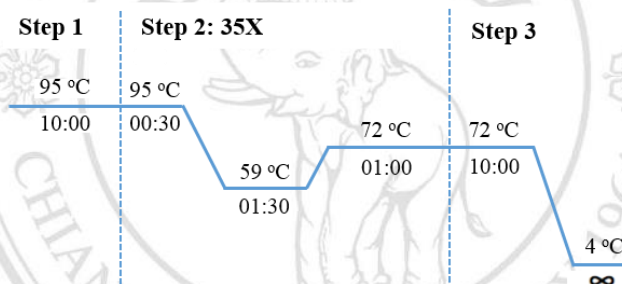
Multiplex PCR and gel electrophoresis procedures



Prepare 15 μ l mixture;

- 7.5 μ l Quick Taq HS DyeMix
- 4.4 μ l sterile distilled water
- 0.3 μ l each of MD16S1 and MD16S2 primers
- 0.25 μ l each of MDmapA1, MDmapA2, COL3 and MDCOL2 primers
- 1.5 μ l DNA template

Perform multiplex PCR under the condition



Run gel electrophoresis
1.5% agarose gel (+ Redsafe™)
110V, 30 min

View the gel under UV light
(302 nm) and record results



CURRICULUM VITAE

Author's Name Ms. Chalita Jainonthee

Date of Birth 18 June 1988

Place of Birth Phrae Province, Thailand

Education

- 2013 - 2017 Master of Public Health Program in One Health (international program), Chiang Mai University, Thailand and University of Minnesota, USA
- 2007 - 2012 Doctor of Veterinary Medicine (DVM) with First Class Honors, Faculty of Veterinary Medicine, Chiang Mai University, Thailand
- 2001 - 2006 Nareerat School Phrae, Phrae, Thailand

Scholarship

- 2013 - 2015 Master of Public Health Program in One Health (international program) scholarship

Proceedings Publications

Jainonthee, C., Pothipik, R., Na Lampang, K., Pichpol, D., Meeyam, T. (2016, September 4-8). The use of Polymerase Chain Reaction in *Vibrio parahaemolyticus* identification applied in Most Probable Number method. In P. H. Clausen, M. P.O. Baumann & A. M. Nijhof (Eds.), *Tropical Animal Diseases and Veterinary Public Health: Joining Forces to Meet Future Global Challenges*. Paper presented at the First Joint AITVM – STVM Conference, Berlin (pp. 151). Giessen: Verlag der DVG Service GmbH.

Jainonthee, C., Chaisowwong, W., Meeyam, T., Chanayat, Y., Ngamsanga, P., Pichpol, D. (2017, February 10-11). Microbiological quantitative assessment of poultry carcasses from large-scale slaughterhouses in Chiang Mai province, Thailand. In T. Meeyam, D. Pichpol, W. Chaisowwong, C. Jainonthee, P. Ngamsanga, ... & C. Kumlor (Eds.), *The 3rd Researchers Conference of Emerging Disease at Convergence of Animal, Human and Environmental Health*. Paper presented at the GHI - Thailand 2017 Conference, Chiang Mai (pp. 28). Chiang Mai: Veterinary Public Health Centre for Asia Pacific.

Professional Experience

2013 - present Veterinarian, Veterinary Public Health Centre for Asia Pacific,
Faculty of Veterinary Medicine, Chiang Mai University, Thailand

Field of Interests

Food safety, One Health, Molecular biology



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