

APPENDIX

Reagents, media and chemicals

1. Bolton Broth (CM0983, Oxoid)

Typical Formula*	gm/liter
Meat peptone	10.0
Lactalbumin hydrolysate	5.0
Yeast Extract	5.0
Alpha-ketoglutaric acid	1.0
Sodium pyruvate	0.5
Sodium metabisulphite	0.5
Sodium carbonate	0.6
Haemin	0.01
pH 7.4 ± 0.2 @ 25°C	

Bolton broth Selective Supplement (SR0183, Oxoid)

Vial contents (each vial is sufficient for 500ml of medium)	per vial	per liter
Cefoperazone	10.0mg	20.0mg
Vancomycin	10.0mg	20.0mg
Trimethoprim.	10.0mg	20.0mg
Cycloheximide	25.0mg	50.0mg

Sterile lysed defibrinated horse blood

Use horse blood lysed by freezing then thawing out.

Direction: Add 13.8g of Bolton Broth to 500ml of distilled water. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C. Aseptically add 25ml laked horse

blood and 1 vial of Bolton broth Selective Supplement SR0183, reconstituted as directed. Mix well and distribute into sterile screw top containers.

2. Modified charcoal cefoperazone deoxycholate agar (mCCD agar) (CM0739, Oxoid)

Typical Formula*	gm/liter
Nutrient Broth No.2	25.0
Bacteriological charcoal	4.0
Ferrous sulphate	0.25
Sodium pyruvate	0.25
Agar	12.0
pH 7.4 ± 0.2 @ 25°C	

CCDA selective supplement (SR0155)

Vial contents (each vial is sufficient for 500ml of medium)	per vial	per liter
Cefoperazone	16mg	32mg
Amphotericin B	5mg	10mg

Directions: Suspend 22.75g of *Campylobacter* Blood-Free Selective Agar Base in 500ml of distilled water and bring to the boil to dissolve. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C. Aseptically add 1 vial of CCDA Selective Supplement SR0155 reconstituted as directed. Mix well and pour into sterile Petri dishes.

3. Columbia Blood agar Base (CM0331, Oxoid)

Typical Formula*	gm/liter
Special peptone	23.0
Starch	1.0
Sodium chloride	5.0

Agar 10.0

pH 7.3 ± 0.2 @ 25°C

Sterile defibrinated sheep blood

Directions: Add 39g to 1 liter of distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C and add 5% sterile defibrinated sheep blood.

4. Mueller Hinton agar (225250, Difco)

Typical Formula*	gm/liter
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Beef, dehydrated infusion from	300.0
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Casein hydrolysate	17.5
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Starch	1.5
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Agar	17.0
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pH 7.3 ± 0.1 @ 25°C

Sterile defibrinated sheep blood

Directions: Add 38g to 1 liter of distilled water. Bring to the boil to dissolve the medium completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C and add 5% sterile defibrinated sheep blood.

5. Oxidase Reagent Droppers (261181, BD)

Contain 0.5 mL of a 1% aqueous solution of N,N,N',N'-tetramethyl-p-phenylenediamine dihydrochloride

Performing the test - Filter Paper Method. Add a few drops of Oxidase test reagent to a strip of filter paper (Whatman No. 1 or equivalent). Streak a loopful of bacteria

onto the reagent-saturated paper with a platinum loop or wooden applicator stick. Use of steel or nichrome loops may cause false-positive reactions.

6. Antibiotics for disk diffusion test

Ampicillin 10 μ g (CT0003B, Oxoid)

Ciprofloxacin 5 μ g (CT0425B, Oxoid)

Erythromycin 15 μ g (CT0020B, Oxoid)

Gentamicin 10 μ g

Tetracycline 30 μ g (CT0054B, Oxoid)

7. PCR reagents

deoxynucleoside triphosphate [10mM] (iNtRon),

10x reaction buffer [2.5mM] (20 mM Tris-HCl; 10 mM [NH₄]₂SO₄; 10 mM KCl; 2 mM Mg SO₄; 0.1% Triton X-100 pH 8.8 @ 25°C) (Promega,)

MgCl₂ [25 mM] (Promega,)

GoTaq Flexi [5U/ μ l] (Promega,)

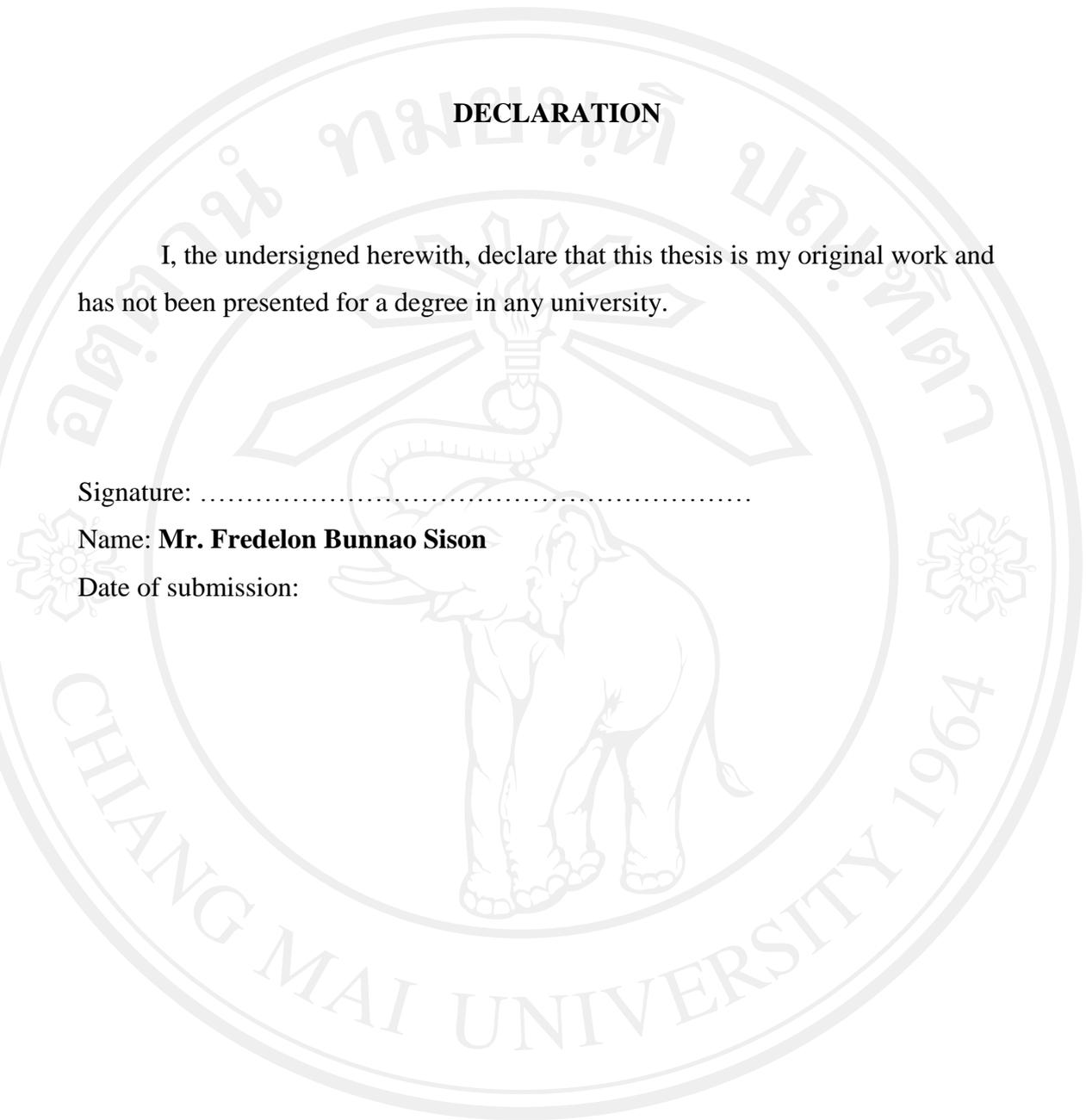
DECLARATION

I, the undersigned herewith, declare that this thesis is my original work and has not been presented for a degree in any university.

Signature:

Name: **Mr. Fredelon Bunnao Sison**

Date of submission:



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