APPENDIX

Appendix: Equipment, Materials, Media and Reagents

1. Lab Equipment and Materials

- Sterile 500, 1000 and 2000 ml Erlenmeyer flasks, sterile 250 and 500 ml beakers and containers of capacity to accommodate samples
- Balance with a 2000 g-weights capacity and a sensitivity of 0.1 g
- Incubator, 37 and 42 °C
- Laboratory refrigerator, -20 and -1 to 4 °C
- Water bath
- Sterile spoons for transferring faecal samples and media
- Sterile culture dishes, 15*100 mm, glass or plastic
- Sterile pipettes
- Inoculating needle and inoculating loop (10 micrometer)
- Culture tubes, 16*150 and 20*150 m
- Test culture tube racks
- Vortex mixer
- Stomacher machine
- Sterile scissors, scalpel and forceps
- Bunsen burner
- Stomacher bags and plastic bags
- Appendop
- Autoclave

2. Equipment and Material for Sample Collection

- Sterile cotton sock swabs
- Disposable hand gloves
- Stomacher bags and plastic bags
- Buffered Peptone Water (BPW)
- Sterile 1000 ml Duran bottle
- Marker pens
- Alcohol, cotton, lighter
- Normal saline
- Disposal gloves, boots and lab coat
- Ice box with ice
- Snare

3. Media, Reagents and Chemicals

- Buffered Peptone Water (BPW)
- Nutrient agar (NA)
- Brilliant-green Phenol-red Lactose Sucrose Agar (BPLS)
- Xylose Lysine Tergitol 4 agar (XLT4)
- Muller Kaufmann Tetrathionate broth (MKTT)
- Modified-Semisolid Rappaport-Vassiliadis broth (MSRV)
- Triple Sugar Iron Agar (TSI)
- Urea Agar
- Motility Indole Lysine Decarboxylation (MIL)
- *Salmonella* polyvalent somatic (O) antiserum A-E
- *Salmonella* polyvalent somatic (O) antiserum F-67
- *Salmonella* somatic (O) antiserum- *Salmonella* group B (O4, O5, O27)
- *Salmonella* somatic (O) antiserum- *Salmonella* group C (O7, O8)
- *Salmonella* somatic (O) antiserum- *Salmonella* group D (O9, Vi)
- *Salmonella* somatic (O) antiserum- *Salmonella* group E (O3, O19)

- Anti-Salmonella flagella (H) e.g. e, f, g, h, i, k, l, m, p, q, r, s, t, u, v, w, x, z_4, z_{23}, z_6, z_{29}, z_{32}, 1, 2,5, 6, 7

DECLARATION

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

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CURRICULUM VITAE

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