Appendices
APPENDIX I

Tryptic soy agar (TSA) (g/L)
Tryptone 17.0
Peptone 3.0
K₂HPO₄ 2.5
NaCl 0.5
Glucose 2.5
Agar 20.0
Cycloheximide 0.05
pH 7.3

APPENDIX II

Malt Yeast Extract Agar (MYEA) (g/L)
Malt extract 10
Yeast extract 4.0
Glucose 4.0
Agar 20.0
Cycloheximide 0.05
pH 7.2

APPENDIX III

Gram's Iodine solution (g/100ml)
Iodine 0.15g
Potassium iodine 0.5g

APPENDIX IV

Reagents used in protein estimation
Reagent A - 2% solution of Na₂CO₃ in 0.1N sodium hydroxide
Reagent B - 0.5% CuSO₄ in 0.1N sodium citrate
Reagent C - 1 ml of reagent B + 50 ml of reagent A
Reagent D - 2N phenol reagent diluted (1:1) with distilled water.

**APPENDIX V**

**Phosphate buffered saline (PBS, 0.05M)** (g/L)

- \( \text{Na}_2\text{HPO}_4 \) 7.098
- \( \text{NaH}_2\text{PO}_4 \cdot 12\text{H}_2\text{O} \) 7.8
- NaCl 8.5
- KCl 0.2

Adjust the pH to 7.4 with HCl

**APPENDIX VI**

**Agarose solution (1%)**

- Agarose 1 g
- Distilled water 50 ml
- McIlvaine buffer 50 ml

Agarose in distilled water was heated in a water bath till a transparent solution was obtained and then 50 ml McIlvaine buffer was added and poured in Petriplates.

**APPENDIX VII**

**McIlvaine buffer**

- Citric acid 2.1 g
- Sodium azide 1.0 g
- Di-sodium hypophosphate 32.04 g
- pH 7.3

Citric acid and di-sodium hypophosphate were dissolved separately in distilled water and then volume was made 1 litre. The stock solution was diluted to fold with double distilled water at the time of use.
APPENDIX VIII

Staining solution
Coomassie brilliant blue 1.25g
Methanol 100ml
Glacial acetic acid 20ml
Distilled water 100ml

APPENDIX IX

Destaining solution
Ethanol 100 ml
Glacial acetic acid 40 ml
Distilled water 260 ml

APPENDIX X

Phosphate buffered saline + Gelatin+Tween-20 (PBS-GT)
PBS 1000 ml
Gelatin 5g
Tween- 20 0.5ml
PH 7.4

APPENDIX XI

Carbonate buffer (0.15M) (g/L)
Na$_2$CO$_3$ 1.59
NaHCO$_3$ 12.6
Adjust pH to 9.6 with NaOH
APPENDIX XII

Washing solution for ELISA

- Phosphate buffer saline: 1000 ml
- Tween-20: 0.5 ml
- pH: 7.4

APPENDIX XIII

Substrate buffer

- Orthophenyldiamine: 40 mg
- Citrate phosphate buffer: 100 ml
- Hydrogen peroxide: 6 ml

APPENDIX XIV

Citrate phosphate buffer (0.15M) (g/L)

- Citric acid: 31.5
- Na$_2$HPO$_4$: 21.28

Adjust the pH to 5.0 with HCl

APPENDIX XV

Reaction terminating solution

- H$_2$SO$_4$: 133.5 ml
- Distilled water: 500 ml