**CHAPTER: 7**

**APPENDIX**

**Peptone Water**

|  |  |
| --- | --- |
| **Composition** | **gm/liter** |
| Peptone  | 10.0 |
| Sodium chloride  | 5.0 |
| Disodium phosphate  | 3.5 |
| Potassium dihydrogen phosphate  | 1.5 |

**Nutrient broth**

|  |  |
| --- | --- |
| **Composition** | **gm/liter** |
| `Lab-Lemco’ powder  | 1.0 |
| Yeast extract  | 2.0 |
| Peptone | 5.0 |
| Sodium chloride  | 5.0 |

**MacConkey agar**

|  |  |
| --- | --- |
| **Composition** | **gm/liter** |
| Peptone  | 20.0 |
| Lactose  | 10.0 |
| Bile salts  | 5.0 |
| Sodium chloride  | 5.0 |
| Neutral red  | 0.075 |
| Agar  | 12.0 |

**EMB (Eosin Methylene Blue) Agar**

|  |  |
| --- | --- |
| **Composition** | **gm/liter** |
| Peptone  | 10.0 |
| Lactose  | 10.0 |
| Dipotassium hydrogen phosphate  | 2.0 |
| Eosin Y  | 0.4 |
| Methylene blue  | 0.065 |
| Agar | 15.0 |

**XLD (Xylose Lysine Deoxycholate) Agar**

|  |  |
| --- | --- |
| **Composition** | **gm/liter**  |
| Yeast extract  | 3.0  |
| L-Lysine HCl  | 5.0  |
| Xylose  | 3.75  |
| Lactose  | 7.5  |
| Sucrose  | 7.5  |
| Sodium desoxycholate  | 1.0  |
| Sodium chloride  | 5.0  |
| Sodium thiosulphate  | 6.8  |
| Ferric ammonium citrate  | 0.8  |
| Phenol red  | 0.08  |
| Agar  | 12.5  |

**BGA (Brilliant Green Agar)**

|  |  |
| --- | --- |
| **Composition** | **gm/liter** |
| Proteose peptone | 10.0 |
| Yeast extract | 3.0 |
| Lactose | 10.0 |
| Sucrose | 10.0 |
| Sodium chloride | 5.0 |
| Phenol red | 0.08 |
| Brilliant green | 0.0125 |
| Agar | 12.0 |

**TSI (Triple Sugar Iron) Agar**

|  |  |
| --- | --- |
| **Composition** | **gm/liter**  |
| `Lab-Lemco’ powder  | 3.0  |
| Yeast extract  | 3.0  |
| Peptone  | 20.0  |
| Sodium chloride  | 5.0  |
| Lactose  | 10.0  |
| Sucrose  | 10.0  |
| Glucose  | 1.0  |
| Ferric citrate  | 0.3  |
| Sodium thiosulphate  | 0.3  |
| Phenol red  | 0.024 |
| Agar  | 12.0  |

**Mannitol Salt Agar**

|  |  |
| --- | --- |
| **Composition** | **gm/liter** |
| Casein | 5.0 |
| Animal tissue | 5.0 |
| Beef extract | 1.0 |
| D-mannitol | 10.0 |
| Sodium chloride | 75.0 |
| Phenol red | 0.025 |
| Agar | 15.0 |

**Muller Hinton Agar**

|  |  |
| --- | --- |
| **Composition** | **gm / liter** |
| Beef, infusion from | 300.0 |
| Casein acid hydrolysate | 17.5 |
| Starch | 1.5 |
| Agar | 17.0 |