

# **MCH 004**

## **Apparatus**

1. pH-meter,
2. Glass electrode,
3. Saturated calomel electrode, or combination pH-electrode
4. Beakers (50 ml, 100 ml, 250 ml)
5. Pipettes (10 ml, 20 ml)
6. Burettes
7. Volumetric flasks (50 ml, 100 ml, 250 ml)
8. Potentiometer with standard cell
9. Platinum indicator electrode
10. Magnetic stirrer
11. Silver indicator electrode,
12. Potassium nitrate-agar salt bridge
13. Conductometer with conductance Cell
14. Polarograph with polarographic cell,
15. Saturated calomel electrode

## **Chemicals**

1. Oxalic acid solution
2. NaOH
3.  $\text{CH}_3\text{COOH}$
4. HCl
5. Oxalic acid (AR grade)
6. Phenolphthalein indicator
7. Quinhydrone
8. Potassium dichromate
9. Ammonium iron (II) sulphate
10. Sulphuric acid
11. Silver chloride
12. Sodium chloride
13. Potassium nitrate
14. Agar
15. Vinegar
16. Potassium chloride
17. Potassium nitrate
18. Cadmium sulphate
19. Zinc sulphate
20. Lead sulphate
21. Gelatin
22. Lead nitrate
23. Potassium dichromate