CHAPTER-5 MATERIALS AND INSTRUMENTS

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Chemicals and Solvents Used

1. Acetone - LR grade
2. Acetonitrile - HPLC grade, AR grade
3. Ammonium sulphate - LR grade
4. Carbon tetrachloride - LR grade
5. Chloroform - LR grade
6. Diethyl ether - LR grade
7. Ethyl Acetate - LR grade
8. Formic acid – LR grade
9. Glacial acetic acid – LR grade
10. Hydrochloric acid – LR grade
11. Methanol - HPLC grade, AR grade
12. n-butyl acetate – LR grade
13. n-hexane - LR grade
14. Ortho phosphoric acid – LR grade
15. Potassium dihydrogen phosphate buffer – LR grade
16. Potassium acetate buffer – LR grade
17. Sodium dihydrogen phosphate buffer – LR grade
18. Sodium hydroxide – LR grade
19. Toluene - LR grade
20. Triethylamine – LR grade
21. Water for HPLC
All the above chemicals and solvents were supplied by S.D. Fine Chemicals Ltd., India; Qualigens Fine Chemicals Ltd., Mumbai, India and Ranbaxy Chemicals Ltd., New Delhi, India.

Pre-coated Silica Gel Plates

Pre-coated silica gel 60F_{254} on aluminium sheets were procured from Merck, Germany.

Instruments Used

1. Digital Electronics Balance (Shimadzu)
2. pH meter (Elico Pvt. Ltd, India)
3. Vacuum Pump (Gelman Sciences)
4. UV/Vis Spectrophotometer (Jasco V-530)
5. Camag HPTLC system (with TLC Scanner, WinCATS software and Linomat 5 as application device)
6. HPLC - Class AT10 VP system with PDA Detector (Shimadzu)
7. HPLC- SPD-20A Prominence UV/VIS Detector (Shimadzu)