

This chapter includes list of tables enlisting various materials/reagents/solvents used in the research work along with their respective suppliers/manufacturers. It also enlists table stating list of equipments employed in the research work against their source/make name.

Table 4.1 List of materials used in the research work

Sr. No.	Name of Material	Name of Supplier
1	Prednisone (PRS)	Welable Pharmaceuticals, Mehsana, India
2	Methylprednisolone (MPR)	Piramal Healthcare Pvt. Ltd. Ahmedabad, India
3	Diclofenac sodium (DIC)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
4	Diltiazem hydrochloride (DIL)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
5	Nifedipine (NIF)	Welable Pharmaceuticals, Mehsana, India
6	Lornoxicam (LOR)	Welable Pharmaceuticals, Mehsana, India
7	Microcrystalline cellulose (MCC) (Avicel PH102)	Signet Chemical Corp. Pvt. Ltd., Mumbai, India
8	Lactose monohydrate (Pharmatose DCL 11)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
9	Ethylcellulose (EC) N10 (Aqualon EC N10)	Ashland Inc., Mumbai, India
10	Hydroxypropyl methylcellulose (HPMC) (Benecel E5, E15, E50, K100LV and K4M)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
11	Colloidal silicon dioxide (Aerosil 200)	Evonik Ind., Mumbai, India
12	Magnesium stearate (MgSt)	S. D. Fine Chem Ltd., Mumbai, India
13	Talc	Qualigens, Mumbai, India
14	Sodium stearyl fumarate (SSF) (Pruv)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
15	Glyceryl Behenate (Compritol 888 ATO)	Gattefosse, Mumbai, India
16	Stearic acid (Kolliwax S)	Signet Chemical Corp. Pvt. Ltd., Mumbai, India
17	Hydroxypropylcellulose (HPC) (Klucel EF)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
18	Hydroxypropylcellulose (HPC) (Nisso HPC SSL)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India

19	Povidone K30 (Plasdone K29/32)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
20	Copovidone (Plasdone S630)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
21	Polyethylene glycol (PEG) 4000 and 6000 (Polyglykol 4000 and 6000)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
22	Mannitol (Pearlitol SD200)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
23	Sodium starch glycolate (SSG) Type A (Glycolys)	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
24	Meglumine (MEG)	Welable Pharmaceuticals, Mehsana, India
25	Xylitol	Unimedia Pharmaceuticals Pvt. Ltd., Ahmedabad, India
26	Simulated intestinal fluid (SIF) powder (QMB Innovation Centre, London, UK)	Welable Pharmaceuticals, Mehsana, India
27	Hydroxypropyl methylcellulose acetate succinate (HPMC AS LF)	Signet Chemical Corp. Pvt. Ltd., Mumbai, India

Table 4.2 List of solvents/reagents used in the research work

Sr. No.	Material	Source/Make
1	Methanol (UV and HPLC grade)	S. D. Fine Chem Pvt. Ltd., Mumbai, India/ Rankem Ltd., New Delhi, India /Spectrochem Pvt. Ltd., Mumbai, India
2	Acetonitrile (UV and HPLC grade)	S. D. Fine Chem Pvt. Ltd., Mumbai, India/ Rankem Ltd., New Delhi, India /Spectrochem Pvt. Ltd., Mumbai, India
3	Isopropyl alcohol (IPA) (UV and HPLC grade)	Spectrochem Pvt. Ltd., Mumbai, India/ Rankem Ltd., New Delhi, India
4	Dichloro methane (DCM) AR grade	Spectrochem Pvt. Ltd., Mumbai, India/ Rankem Ltd., New Delhi, India
5	Triethyl amine (TEA) (HPLC grade)	S. D. Fine Chem Pvt. Ltd., Mumbai, India/ Merck Pvt. Ltd., Mumbai, India
6	Orthophosphoric acid (OPA) (HPLC grade)	S. D. Fine Chem Pvt. Ltd., Mumbai, India/ Merck Pvt. Ltd., Mumbai, India
7	Hydrochloric acid (HCl) AR grade	Loba Chemie Pvt. Ltd., Mumbai, India
8	Glacial acetic acid (HPLC and AR grade)	Merck Pvt. Ltd., Mumbai, Mumbai
9	Potassium dihydrogen orthophosphate AR grade	Loba Chemie Pvt. Ltd., Mumbai, India
10	Sodium hydroxide AR grade	Loba Chemie Pvt. Ltd., Mumbai, India/ Rankem Ltd., New Delhi, India
11	Potassium bromide	S. D. Fine Chem Pvt. Ltd., Mumbai, India
12	Sodium chloride	Himedia Labs Pvt. Ltd., Mumbai, India
13	Sodium dihydrogen phosphate	Loba Chemie Pvt. Ltd., Mumbai, India
14	Sodium acetate AR grade	Loba Chemie Pvt. Ltd., Mumbai, India

Table 4.3 List of equipments used in the research work

Sr.No.	Equipment	Source/Make
1	Digital weighing balance	Shimadzu AX 120, Kyoto, Japan; Shimadzu ELB300, Kyoto, Japan
2	pH meter	PICO ⁺ , Labindia, Mumbai, India
3	Bath sonicator	B.N. Scientific Enterprise, Ahmedabad, India
4	High Performance Liquid Chromatography (HPLC) system	LC-20AT/SPD-20A, Shimadzu Corporation, Kyoto, Japan
5	UV-Visible spectrophotometer	UV1700, Shimadzu Corporation, Kyoto, Japan
6	Compression machine	Eight station automatic rotary tablet press, JM-8, General Machinery Co., Mumbai, India
7	Coating machine	Solace Engineers (Mktg) Pvt. Ltd., Vadodara, India
8	Dial type tablet hardness tester	Scientific Engineering Co., Delhi, India
9	Friability test apparatus	VFT-2D, Veego Instruments Co., Mumbai, India
10	Disintegration test apparatus	VTD-DV, Veego Instruments Co., Mumbai, India)
11	Dissolution apparatus	VDA-6DR, Veego Instruments Co., Mumbai, India
12	Stability chamber	S. R. Lab instruments, Mumbai, India.
13	Rota evaporator	IKA RV10, Cole parmer, Mumbai, India
14	Sieves	Jayant Scientific Industries, Mumbai, India/ Wiremetal GMP products, Mumbai, India
15	Differential scanning calorimeter (DSC)	DSC-60, Shimadzu, Kyoto, Japan
16	Powder X-ray diffraction (PXRD)	Xpert Pro, PANalytical, Almelo, The Netherlands
17	Fourier transform infra-red spectroscopy (FTIR)	Alpha-T, Bruker Optik, Mumbai, India
18	Scanning electron microscope (SEM)	JSM-5610LV, Jeol Ltd., Tokyo, Japan
19	Liquid chromatography-Mass Spectrometer (LC-MS)	Ekspert ultra LC/ 3200 QTRAP, eksigent-AB Sciex, USA
20	Stirrer	Remi Sales & Engineering Ltd., Mumbai, India
21	Centrifuge	CPR 30, Remi Sales & Engineering Ltd., Mumbai, India/ Spinwin MC-01, Tarsons products Pvt. Ltd., Kolkata, India
22	Vacuum Oven	Electroquip, Vadodara, India
23	Oven	Shree Kailash Industries, India