
LIST OF MATERIALS

Sr. No.	Materials	Source
1	Atorvastatin calcium (ATO)	Alembic Pharmaceuticals Ltd., Vadodara, India.
2	Risedronate sodium (RSNa)	Swapnroop laboratories, Mumbai, India
3	Clinidipine	Alembic Pharmaceuticals Ltd., Vadodara, India.
4	Double distilled water	G.H. Patel Pharmacy Building, Vadodara, India.
5	Methanol	Thermofischer Chemicals, India.
6	Acetonitrile	Thermofischer Chemicals, India.
7	Hydrochloric acid	Thermofischer Chemicals, India.
8	Formic acid	Thermofischer Chemicals, India.
9	Disodium ethylene diamine tetra-acetic acid (EDTA-2Na)	Sigma Aldrich, Mumbai, India.
10	Sodium phosphate	Sigma Aldrich, Mumbai, India.
11	Ascorbic acid	Sigma Aldrich, Mumbai, India.
12	Tetrabutyl ammonium hydroxide (TBAH)	Sigma Aldrich, Mumbai, India.
13	Disodium hydrogen phosphate	Lobachemie Pvt. Ltd., Vadodara, India.
14	Potassium dihydrogen phosphate	Lobachemie Pvt. Ltd., Vadodara, India.
15	Sodium chloride	Lobachemie Pvt. Ltd., Vadodara, India.
16	Sodium hydroxide (NaOH)	Lobachemie Pvt. Ltd., Vadodara, India.
17	Calcium Chloride	Lobachemie Pvt. Ltd., Vadodara, India.
18	Glycerol	Lobachemie Pvt. Ltd., Vadodara, India.
19	Trichloroacetic acid (TCA)	Lobachemie Pvt. Ltd., Vadodara, India.
20	Lipoid S-75	Lipoid GmbH, GERMANY.
21	Cholesterol	Lobachemie Pvt. Ltd., Vadodara, India.
22	Propylene glycol (PG)	Lobachemie Pvt. Ltd., Vadodara, India.
23	Potassium bromide (KBr)	Lobachemie Pvt. Ltd., Vadodara, India.
24	Chitosan	Himedia Pvt. Ltd., Mumbai, India.

25	Chondroitin sulfate	Himedia Pvt. Ltd., Mumbai, India.
26	HPMC K4M	Evonik India Pvt. Ltd, Mumbai, India.
27	Polyethylene glycol (PEG)-400	Lobachemie Pvt. Ltd., Vadodara, India.
28	Chloroform	ThermoFisher Chemicals, India.
29	Sephadex G-25	Sigma Aldrich, Mumbai, India.
30	Sodium sulphide	Lobachemie Pvt. Ltd., Vadodara, India.
31	Sulfuric acid	Rankem Chemicals, Vadodara, India.
32	Dialysis membrane-130 (la 393)	Himedia Pvt. Ltd., Mumbai, India.
33	Dulbecco's Modified Eagle Medium (DMEM)	Himedia Pvt. Ltd., Mumbai, India.
34	Trypsin-EDTA	Himedia Pvt. Ltd., Mumbai, India.
35	Foetal bovine serum (FBS)	Himedia Pvt. Ltd., Mumbai, India.
36	Penicillin/streptomycin (Antibiotic) solution	Himedia Pvt. Ltd., Mumbai, India.
37	T-25 cell culture flask	Himedia Pvt. Ltd., Mumbai, India.
38	Dimethyl sulfoxide	Himedia Pvt. Ltd., Mumbai, India.
39	MTT reagent	Himedia Pvt. Ltd., Mumbai, India.
40	Triton X 100	Lobachemie Pvt. Ltd., Vadodara, India.
41	Transwell® inserts	Himedia Pvt. Ltd., Mumbai, India.
42	Acetic Acid	Astron Chemicals India, Ahmedabad, India.
43	Poloxamer 407	Sigma Aldrich, Mumbai, India.
44	Aluminium chloride	Lobachemie Pvt. Ltd., Vadodara, India.
45	Fluorescein isothiocyanate (FITC)	Himedia Pvt. Ltd., Mumbai, India.
46	Rhodamine B	Himedia Pvt. Ltd., Mumbai, India.
47	Hematoxylin and Eosin (H&E) dyes	Himedia Pvt. Ltd., Mumbai, India.

LIST OF INSTRUMENTS/EQUIPMENTS

Sr No.	Instruments/Equipments	Make and models
1	Digital analytical balance	Shimadzu, Japan.
2	UV Visible spectrophotometer 1900	Shimadzu, Japan.
3	HPLC 1220 LC	Agilent technology, Germany.
4	Melting point apparatus	Veego Instrument, India.
5	Differential Scanning Calorimeter	DSC-60, Shimadzu, Japan.
6	FTIR	IR Affinity – 1S, Shimadzu, Japan.
7	Rotary evaporator	IKA® India Private Limited, India.
8	Probe sonicator	Sartorius Lab Instruments GmbH & Co. KG, Germany.
9	Malvern zetasizer Nano-ZS 90	Malvern Instrument, Worcestershire, United Kingdom.
10	Transmission electron microscopy (TEM)	JEM-2100, 200 kV, Jeol Ltd., Japan.
11		TEM, Philips Tecnai 20, India.
12	Gas chromatography	Perkin Elmer, USA.
13	CO ₂ bio-incubator	Jouan IGO150 CELL life, Thermo Fisher Scientific, India .
14	Millicell® ERS meter	Millipore, Bedford, Massachusetts, USA.
15	Microplate reader	Bio-Rad, Model 680 XR, Mumbai, India.
16	Magnetic Stirrer	REMI LAB WORLD, India.
17	X-ray diffraction	Philips, PW 1710.
18	Refrigerator	Godrej Ltd. India.
19	Hot air oven	Modern industrial corporation, Mumbai, India.
20	pH meter	Labindia Analytical Pvt Ltd., India.
21	Rheometer	HAAKE MARS III, Thermo Scientific, India.
22	Thickness tester	Model No.-2046, Mitutoyo, Japan.
23	Digital tensiometer	Brookfield texture analyzer; Brookfield, IL, USA.
24	Fluorescence microscope	Nikon Ti2E, USA.

25	Inverted microscope	Nikon Ti2E, USA.
		Nikon Eclipse TS 100, USA.
26	Refrigerating centrifuge	REMI LAB WORLD, India.
27	X-ray scanner	foX-Rayzor, Vidisco Ltd., Israel.
28	Semi-automatic analyzer	MICROLAB ARX-3
29	Plethysmometer	Ptm-Xn, Milton Laboratory Enterprises, India.
30	Laminar air flow (HEPA filter)	Weiber vertical laminar air flow, India.
31	Deep Freezer (-20°C)	Deepfrost