LIST OF FIGURES

LIST OF EQUIPMENTS AND THEIR MAKE

Equipments/Apparatus	Make
Calibrated pipettes of 1.0 mL, 5.0 mL and 10.0 mL, volumetric flasks of 10 mL, 25 mL, 50 mL and 100 mL capacity. Beakers, funnels and other glassware.	Corning India Ltd. and Borosil, Mumbai, India.
Analytical balance (205A SCS, PBS 205)	Precisa, Switzerland and Mettler, USA.
pH meter	Systronics 335, India.
Cyclomixer	Remi Scientific Instruments, Mumbai, India.
Centrifuge (C-24)	Remi Scientific Instruments, Mumbai, India.
Photon Correlation Spectrophotometer (Nano ZS)	Malvern Instruments, UK.
Stirrers and Magnetic stirrers	Remi Scientific Instruments, Mumbai, India.
Instant Thin Layer Chromatography (ITLC)	Gelman Sciences Inc., Ann Arbor, MI, USA.
Single Positron Emission Computerized Tomography (Diacam, SPECT, LC 75-005)	Siemens AG; Erlanger, Germany.
Gamma Scintillation Counter (shielded well-type, Type GRS23C)	Electronics Corporation of India Ltd, Mumbai, India.
Software	WinNonliln, USA
UV-Visible double beam spectrophotometer (UV-1601)	Shimadzu, Japan.

LIST OF RAW MATERIALS AND THEIR SOURCE

Raw Material	Source
Tacrine HCl	Pfizer, USA
Donepezil HCl	Sun Pharma Advanced Research Center, Vadodara, India.
Propylene glycol	ISP Technologies, Mumbai, India.
Labrafil M 1944 CS	Gatteffose, France (Supplied by Colorcon Asia Pvt. Ltd., Goa, India)
Labrafac CC	Gatteffose, France (Supplied by Colorcon Asia Pvt. Ltd., Goa, India)
Transcutol P	Gatteffose, France (Supplied by Colorcon Asia Pvt. Ltd., Goa, India)
Cremophor RH 40	BASF, Mumbai, India.
Cremophor EL	BASF, Mumbai, India.
Captex 355	Abitec Corporation, Ohio, USA
Capmul MCM	Abitec Corporation, Ohio, USA
Polysorbate 80 (Tween 80)	ICI chemicals, Mumbai, India.
Carbopol 934 P	Noveon, Mumbai, India.
Chitosan	
Sodium pertechnetate, separated from molybdenum-99 (99m)	Board of Radiation and Isotope Technology (BRIT), Delhi, India.
Stannous chloride dehydrate ($SnCl_2.2H_2O$)	Sigma Chemical Co., St. Louis, MO.
Sodium bicarbonate	S.D. Finechem, Ahmedabad, India.
Glacial acetic acid	Rankem, Mumbai, India.
Acetone	S.D. Finechem, Ahmedabad, India.
Pyridine	S.D. Finechem, Ahmedabad, India.
Diethylene triamine penta acetic acid (DTPA)	Sigma Chemical Co., St. Louis, MO.
Ethyl alcohol (Absolute)	Alembic Ltd., Vadodara.
Sodium chloride	S.D. Finechem, Ahmedabad, India.
Disodium hydrogen phosphate	Merck Chemicals, Mumbai, India.

Raw Material	Source
Potassium dihydrogen phosphate	Merck Chemicals, Mumbai, India.
Sunflower Oil	Ranjit Chemicals, Mumbai, India.
Corn Oil	Ranjit Chemicals, Mumbai, India.
Methanol	Merck Chemicals, Mumbai, India.
Diethyl ether	S.D. Finechem, Ahmedabad, India.
Scopolamine hydrochloride	Sigma Chemical Co., St. Louis, MO.
0.45µm and 0.22 µm membrane filter (Nylon 66)	Millipore, France.