LIST OF TABLES:

I. Details of patented Indian Polyherbal Liver protective market formulations. 9-20
II. Frequently used herbs in polyherbal hepatoprotective formulations in India. 20-21
III. Names of herbs (used in hepatoprotective formulations in India), their frequency and evaluation for hepatoprotective activity, if done. 22-24
IV. Hepatoprotective efficacy of herbal drugs. 25-50
V. Commercial polyherbal formulations verified pharmacologically for their antihepatotoxic activity. 50-51
VI. Promising antihepatotoxic constituents of the plants. 51-52
VII. Characters of *E. prostrata* and its adulterants and substitutes. 62-64
VIII. Comparative morphological and microscopical study on four species of *Phyllanthus*. 92-93
IX. Details of the market formulations procured. 129-134
X. Extractive and ash values of the fresh and market samples of the herbs. 164-165
XI. Antioxidant activities of the extracts of *S. nigrum* leaf, using DPPH reagent. 183
XII. Effects of different extracts of *S. nigrum* leaf on hexobarbitone induced sleeping time in mice. 185
XIII. Effects of the extracts of *S. nigrum* leaf on SGPT activity in mice. 186
XIV. Detection of flavonoids in eluted compounds of *S. nigrum* leaf. 187
XV. Antioxidant activity of the isolated compounds of *S. m. grum* leaf using DPPH reagent. 191
XVI. Effect of isolated quercetin glycoside on hexobarbitone induced sleeping time in mice. 193
XVII. HPTLC calibration data of concentration versus peak area and height for standard wedelolactone. 204
XVIII. Linear range, correlation of co-efficient and standard deviation for wedelolactone by HPTLC method. 204
XIX. Percentage of wedelolactone in fresh herb of *E. prostrata* by HPTLC method. 209
XX. Percentage of wedelolactone in market sample of *E. prostrata* by HPTLC method. 209
XXI. HPTLC analysis of Stimuliv tablet for wedelolactone content. 210
XXII. HPTLC analysis of Livotrit tablet for wedelolactone content. 210
XXIII. HPTLC analysis of Livomyn tablet for wedelolactone content. 210
XXIV. HPTLC analysis of Hepatinic tablet for wedelolactone content. 211
XXV. HPTLC analysis of Livex capsule for wedelolactone content. 211
XXVI. HPTLC analysis of Daboliv capsule for wedelolactone content. 211
XXVII. Results of HPTLC analysis of *E. prostrata* herb and their formulations. 214
XXVIII. Intraday precision data for wedelolactone (HPTLC). 215
XXIX. Interday precision data for wedelolactone (HPTLC). 215
XXX. Accuracy data for wedelolactone (% recovery by HPTLC). 215
XXXI. Repeatability data of scanner for wedelolactone (HPTLC). 216
XXXII. Repeatability data of spotter for wedelolactone (HPTLC). 217
XXXIII. Summary of validation parameters for HPTLC analysis of wedelolactone. 217
XXXIV. HPTLC calibration data for standard andrographolide for peak height. 220
XXXV. HPTLC calibration data for standard andrographolide for peak area. 220
XXXVI. Area and concentration of andrographolide in NLP, GHP and GLP by HPTLC method. 225
XXXVII. Area and concentration of andrographolide in MHP, APO TB, LIVTR TB, using HPTLC method. 225
XXXVIII. Area and concentration of andrographolide in LYMN TB and LIVN CP using HPTLC method. 225
XXXIX. Percentage of andrographolide by HPTLC method in A paniculata and its formulations. 228
XL. (a) HPTLC data of repeatability of measurement of peak area and peak height of andrographolide. 230
(b) HPTLC data of repeatability of sample application of andrographolide. 230
XLI. Summary of validation parameters for andrographolide. 231
XLII. HPTLC calibration data for standard phyllanthin, peak area versus concentration. 235
XLIII. HPTLC calibration data for standard phyllanthin, peak height versus concentration. 236
XLIV. Linear range, correlation coefficient and standard deviation for phyllanthin for HPTLC. 236
XLV. Percentage of phyllanthin in the herb of P amarus using HPTLC method. 236
XLVI. Percentage of phyllanthin in the leaf of P amarus using HPTLC method. 242
XLVII. Percentage of phyllanthin in the stem of P amarus using HPTLC method. 242
XLVIII. Percentage of phyllanthin in the root of P amarus using HPTLC method. 242
XLIX. Percentage of phyllanthin in the Livomyn tablet using HPTLC method. 243
L. Percentage of phyllanthin in the Hepatinic tablet using HPTLC method. 243
LI. Percentage of phyllanthin in the Livomap tablet using HPTLC method. 243
LII. Percentage of phyllanthin in the Livina capsule using HPTLC method. 244
LIII. Percentage of phyllanthin in herb, leaf, stem and root of *P amarus* and its market formulations using HPTLC method. 244

LIV. Intraday precision data for phyllanthin. 247

LV. Interday precision data for phyllanthin. 247

LVI. Accuracy data for phyllanthin. 248

LVII. Data of repeatability of sample application. 249

LVIII. Data of repeatability of measurement of peak area and peak height. 249

LIX. Summary of validation data for phyllanthin. 252

LX. Calibration data of standard wedelolactone by HPLC method. 253

LXI. Summary of validation parameters of wedelolactone by HPLC. 256

LXII. Percentage of wedelolactone in *E. prostrata* and its formulations by HPLC method. 256

LXIII. Comparison of the results of HPTLC and HPLC methods of analysis for wedelolactone in *E. prostrata* and their formulations. 260

LXIV. Calibration data for standard andrographolide by HPLC method. 261

LXV. Percentage of andrographolide in *A. paniculata* and its market formulations by HPLC method. 267

LXVI. Summary of validation parameters of andrographolide by HPLC method. 268

LXVII. Comparison of results of HPTLC and HPLC methods of analysis of andrographolide in *A. paniculata* and its PHMF. 268

LXVIII. Calibration data for standard solasodine by HPLC method. 272

LXIX. Percentage of phyllanthin in *P. amarus* and its PHMF by HPLC method. 274

LXX. Summary of validation parameter of phyllanthin by HPLC method. 274

LXXI Comparison of HPTLC and HPLC results for phyllanthin content in *P. amarus* and PHMF. 274

LXXII. Calibration data for standard solasodine by HPLC method. 275

LXXIII. Percentage of solasodine in *S. nigrum* and its PHMF by HPLC method. 279

LXXIV. Summary of validation parameter for solasodine by HPLC method. 279

LXXV. Percentage recovery of solasodine by HPLC method. 280