General note

All the melting points recorded in this thesis are expressed in °C and were determined on Boitus micro melting point apparatus and are uncorrected. The other data were collected using the following instruments.

NMR : 300 MHZ, Bruker FT DRX-300
       400 MHZ, Bruker FT AMX-400

EIMS : EI Techniques on Shimadzu QP 2010 PLUS
       GE-MS system
       JEOL D-300

FABS : JEOL SX - 120/DA 6000

Elemental analysis : Carlo Erba 1108

IR : Perkins Elmer FTIR 88

UV : Spectrophotometer double beam Varian cary 50-

UV : Spectrophotometer double beam Elico RS-232

Unless otherwise stated silica gel ACME (100-200) mesh was used for column chromatography. Silica gel G ACME was used for thin layer chromatography. The bed thickness employed for preparative TLC was 1mm. Whatman no-1 filter paper was under for paper chromatography. The plants were viewed under UV light per detection of fluorescent spots. Ten percent alcoholic sulphuric acid and ammonia were used for detection of compounds in chromatography. The TLC systems are mentioned in experimental sections.