Appendix ONE

Synthetic Summaries of the Formal Total Syntheses of (–)-Thujopsene, (–)-Dysidiolide, and (–)-Aspidospermine

Scheme A1.1 Formal Total Synthesis of Thujopsene



Scheme A1.2 Formal Total Synthesis of Dysidiolide





Appendix TWO

Spectra of Compounds Relevant to Chapter 2







Figure A2.2 Infrared spectrum (NaCl/CDCl₃) of compound 100.



Figure A2.3 ¹³C NMR (75 MHz, CDCl₃) of compound **100**.





Figure A2.5 Infrared spectrum (NaCl/CDCl₃) of compound 75.



Figure A2.6¹³C NMR (75 MHz, CDCl₃) of compound **75**.





Figure A2.8 Infrared spectrum (NaCl/CDCl₃) of compound 143.



Figure A2.9¹³C NMR (75 MHz, CDCl₃) of compound **143**.





Figure A2.11 Infrared spectrum (NaCl/CDCl₃) of compounds **99A** and **99B**.



Figure A2.12 ¹³C NMR (75 MHz, CDCl₃) of compounds **99A** and **99B**.





Figure A2.14 Infrared spectrum (NaCl/CDCl₃) of compounds 103A and 103B.



Figure A2.15¹³C NMR (75 MHz, CDCl₃) of compounds **103A** and **103B**.







Figure A2.17 Infrared spectrum (NaCl/CDCl₃) of compound **104**.



Figure A2.18¹³C NMR (75 MHz, CDCl₃) of compound **104**.





Figure A2.20 Infrared spectrum (NaCl/CDCl₃) of compound **94**.



Figure A2.21 ¹³C NMR (75 MHz, CDCl₃) of compound **94**.





Figure A2.23 Infrared spectrum (NaCl/CDCl₃) of compound **113**.



Figure A2.24 ¹³C NMR (75 MHz, CDCl₃) of compound **113**.





Figure A2.26 Infrared spectrum (NaCl/CDCl₃) of compound **112**.



Figure A2.27¹³C NMR (75 MHz, CDCl₃) of compound **112**.





Figure A2.29 Infrared spectrum (NaCl/CDCl₃) of compound **109**.



Figure A2.30¹³C NMR (75 MHz, CDCl₃) of compound **109**.





Figure A2.32 Infrared spectrum (NaCl/CDCl₃) of compound **121**.



Figure A2.33 ¹³C NMR (75 MHz, CDCl₃) of compound **121**.





Figure A2.35 Infrared spectrum (NaCl/CDCl₃) of compound **79**.



Figure A2.36¹³C NMR (300 MHz, CDCl₃) of compound **79**.





Figure A2.38 Infrared spectrum (NaCl/CDCl₃) of compound **125**.



Figure A2.39¹³C NMR (75 MHz, CDCl₃) of compound **125**.









Figure A2.41 Infrared spectrum (NaCl/CDCl₃) of compound **124**.







Figure A2.44 Infrared spectrum (NaCl/CDCl₃) of compound **120**.



Figure A2.45¹³C NMR (75 MHz, CDCl₃) of compound **120**.