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Supplementary information

for

Nanocatalyzed synthesis of Biginelli Scaffolds

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IR Spectra:

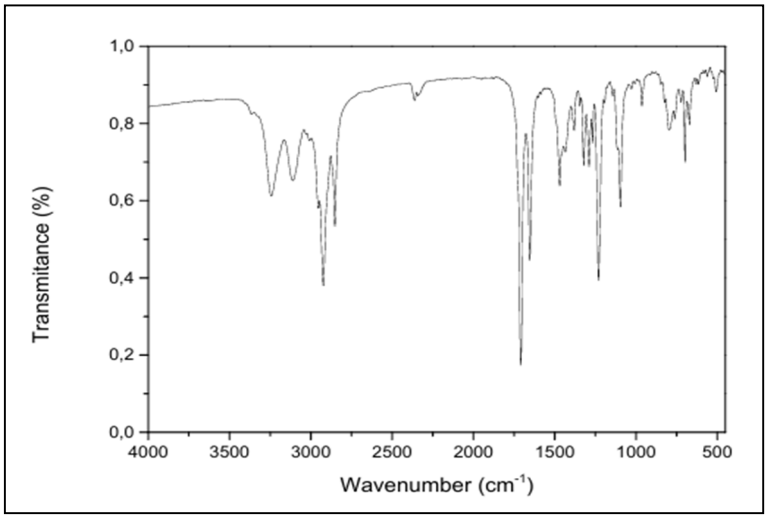


Figure 1. IR Spectrum of 5-(Ethoxycarbony)-6-methyl-(4-phenyl)-3,4-dihydropyrimidin-2(1*H*)-one (BG1)

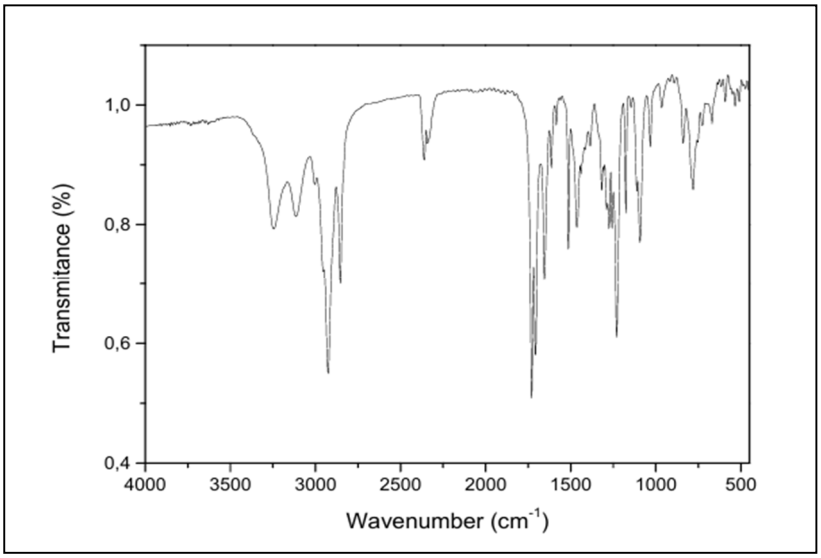


Figure 2. IR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-methoxyphenyl)-3,4 dihydropyrimidin-2(1*H*)-one (BG2)

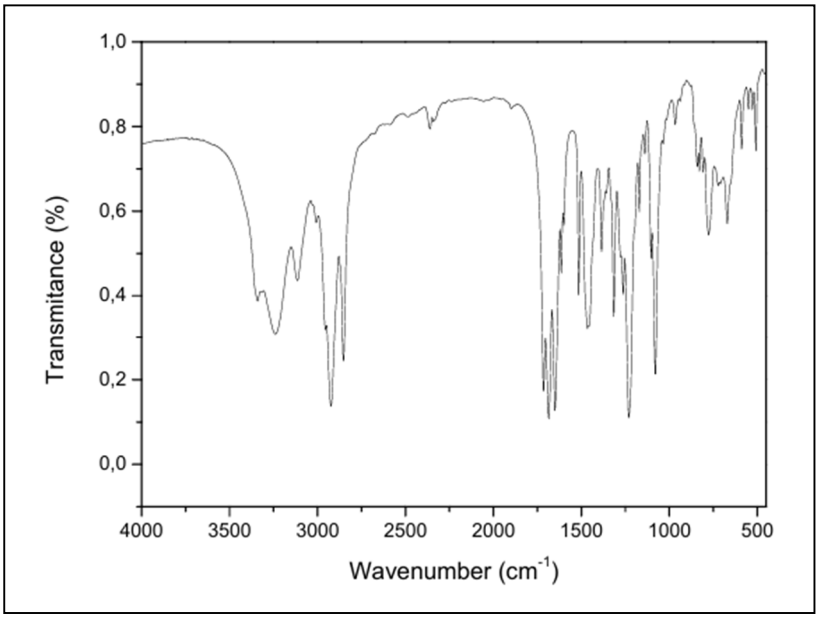


Figure 3. IR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-hydroxyphenyl)-3,4 dihydropyrimidin-2(1H)-one (BG3)

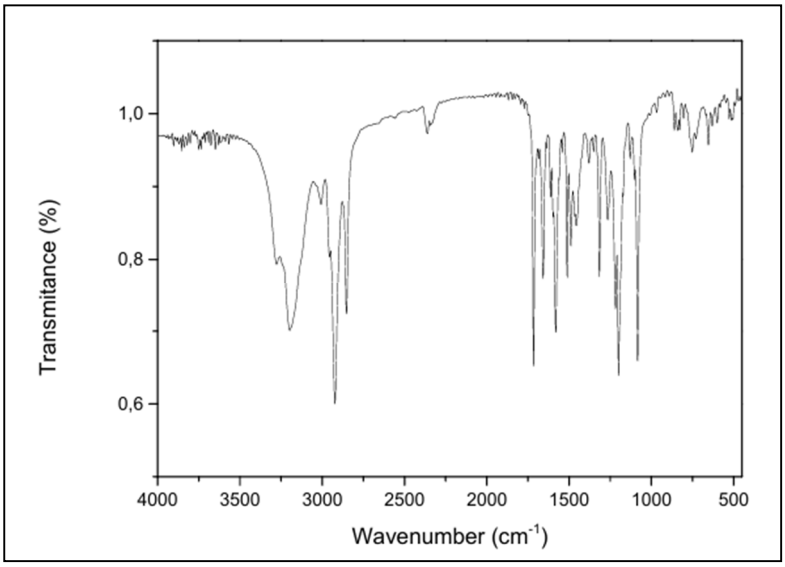


Figure 4. IR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-phenyl)-3,4-dihydropyrimidin-2(1H)-thione (BG5)

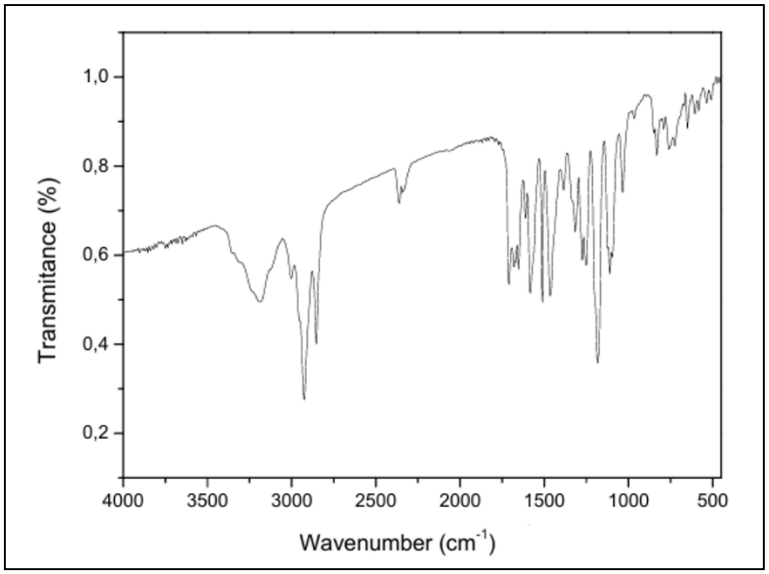


Figure 5. IR Spectrum of 5-(Ethoxycarbony)-6-methyl-(4-Methoxyphenyl)-3,4-dihydropyrimidin-2(1*H*)-thione (BG6)

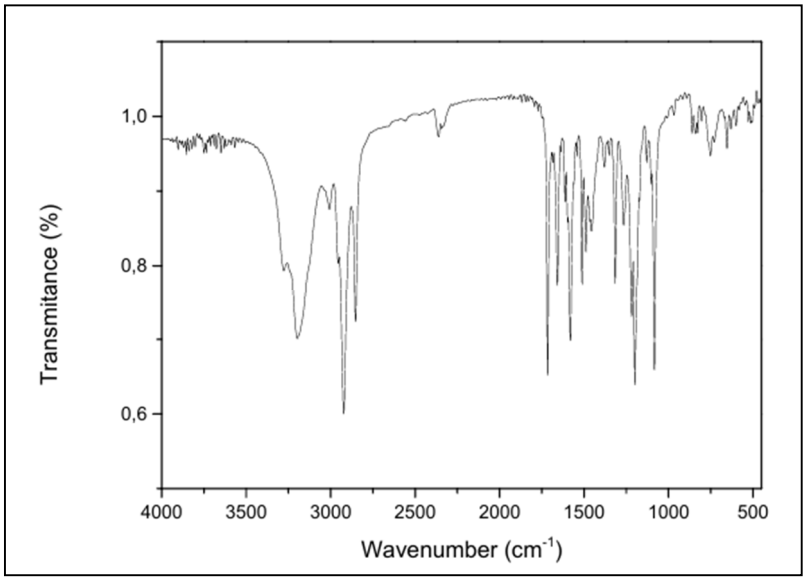


Figure 6. IR Spectrum 5-(Ethoxycarbonyl)-6-methyl-4-(4-hydroxyphenyl)-3,4-dihydropyrimidin-2(1*H*)-thione (BG7)

[1]H NMR Spectra:

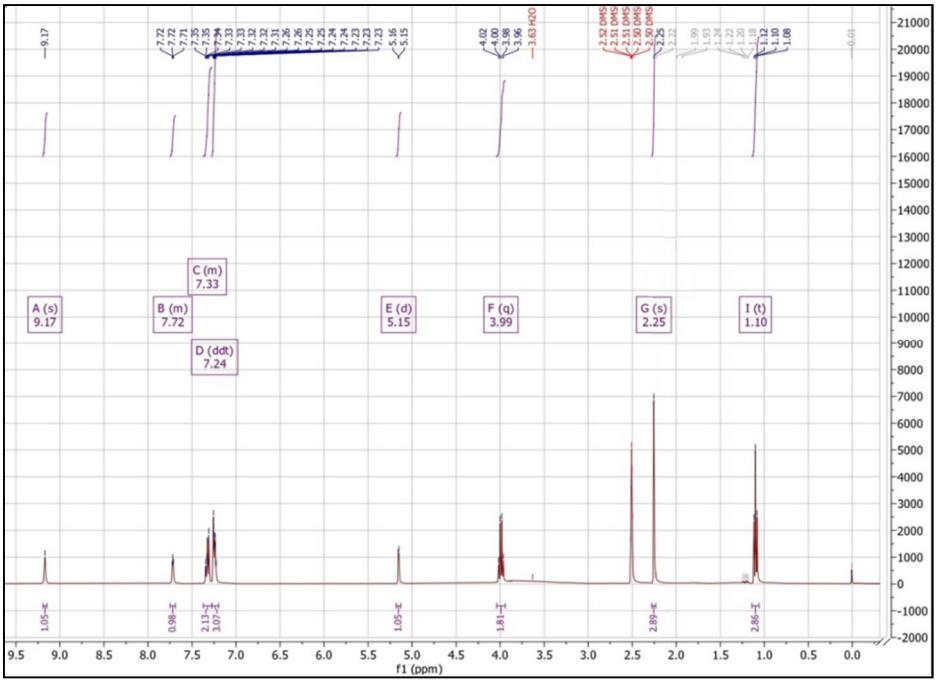


Figure 7. [1]H NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-phenyl)-3,4-dihydropyrimidin-2(1*H*)-one (BG1)

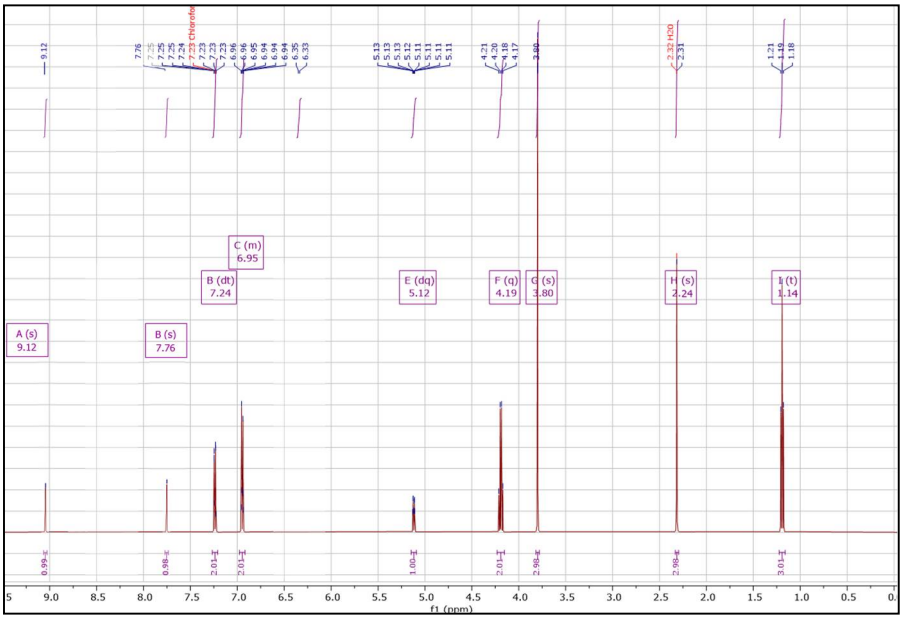


Figure 8. [1]H NMR Spectrum of 5-(Ethoxycarbony)-6-methyl-(4-Methoxyphenyl)-3,4-dihydropyrimidin-2(1*H*)-one (BG2)

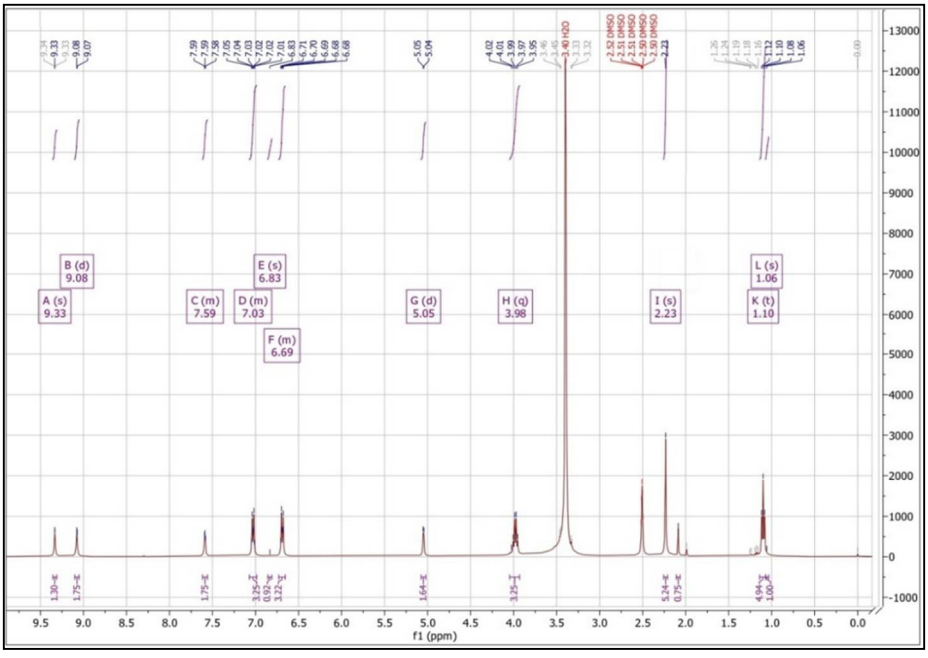


Figure 9. [1]H NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-hydroxyphenyl)-3,4-dihydropyrimidin-2(1*H*)-one (BG3)

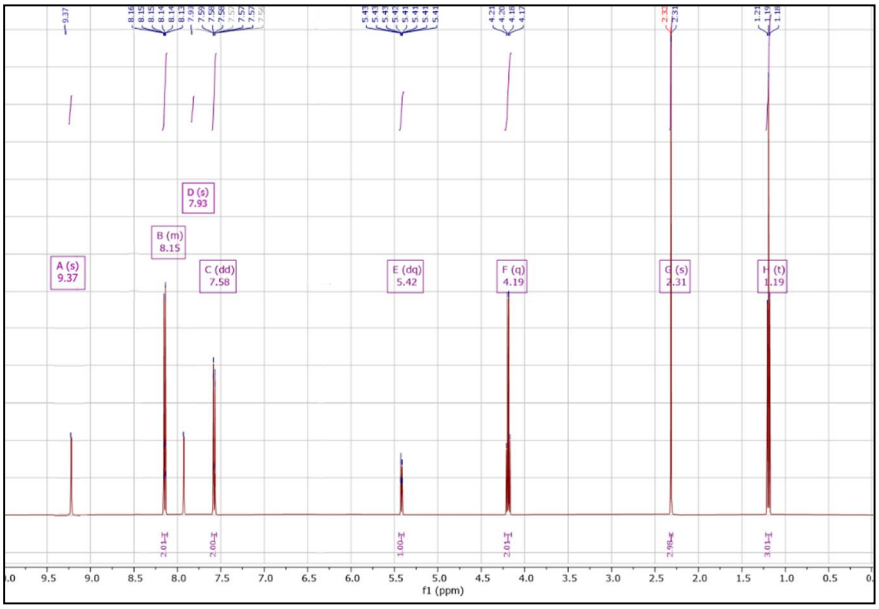


Figure 10. [1]H NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(nitropropyl)-3,4-dihydropyrimidine-2(1*H*)-one (BG4)

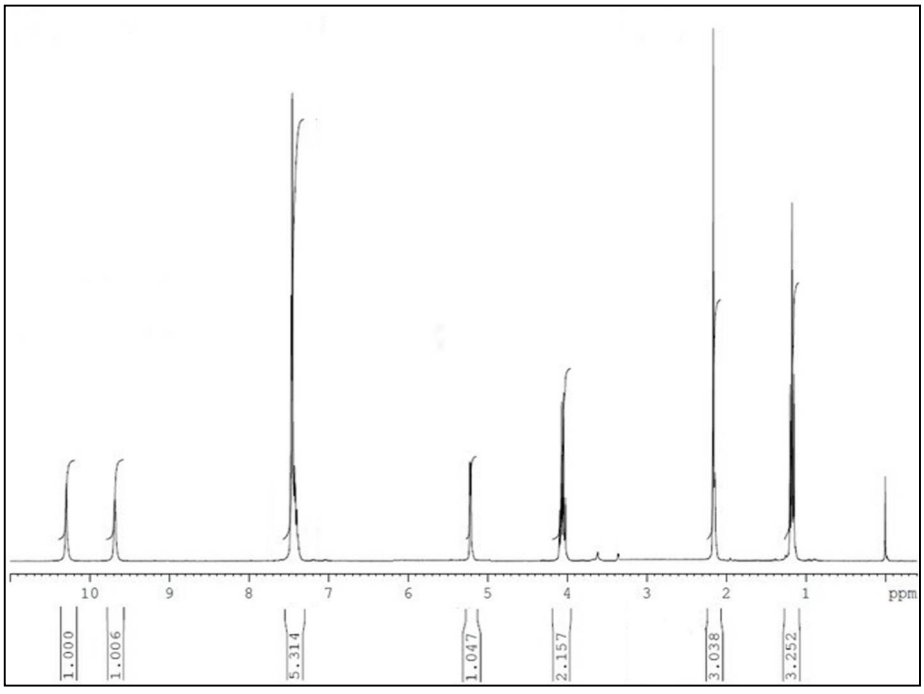


Figure 11. [1]H NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-phenyl)-3,4-dihydropyrimidin-2(1*H*)-thione (BG5)

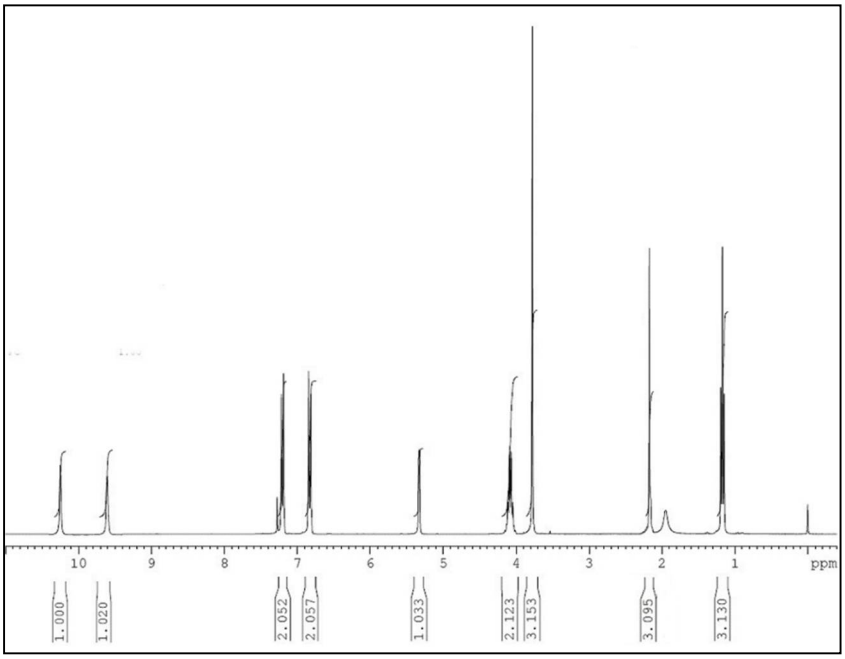


Figure 12. [1]H NMR Spectrum of 5-(Ethoxycarbony)-6-methyl-(4-Methoxyphenyl)-3,4-dihydropyrimidin-2(1*H*)-thione (BG6)

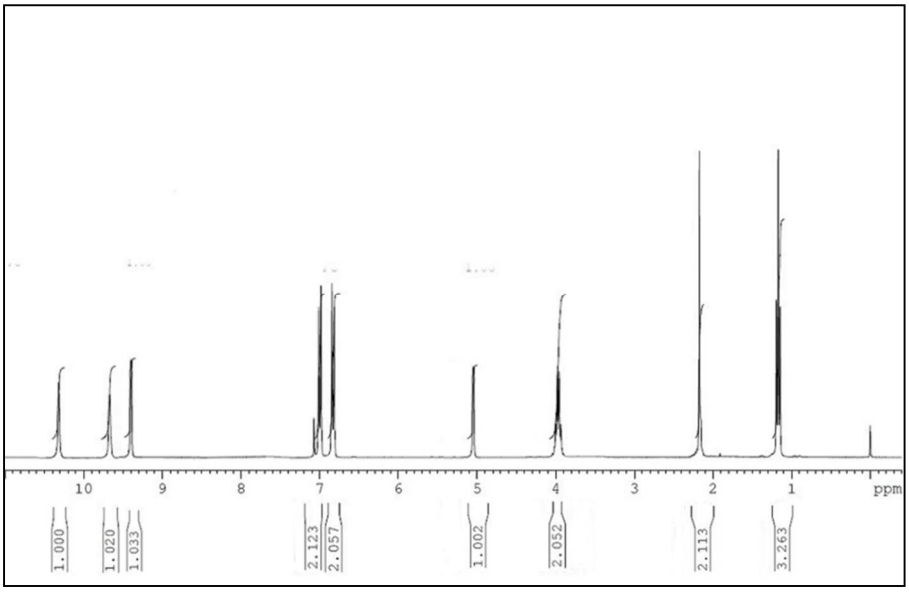


Figure 13. [1]H NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-hydroxyphenyl)-3,4-dihydropyrimidin-2(1*H*)-thione (BG7)

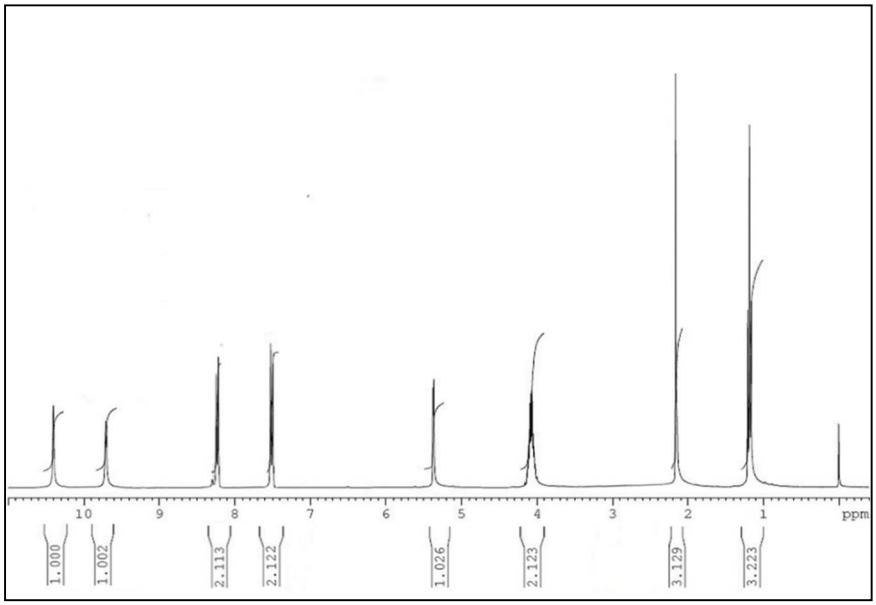


Figure 14. [1]H NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-nitrophenyl)-3,4-dihydropyrimidin-2(1*H*)-thione (BG8)

[13]C NMR

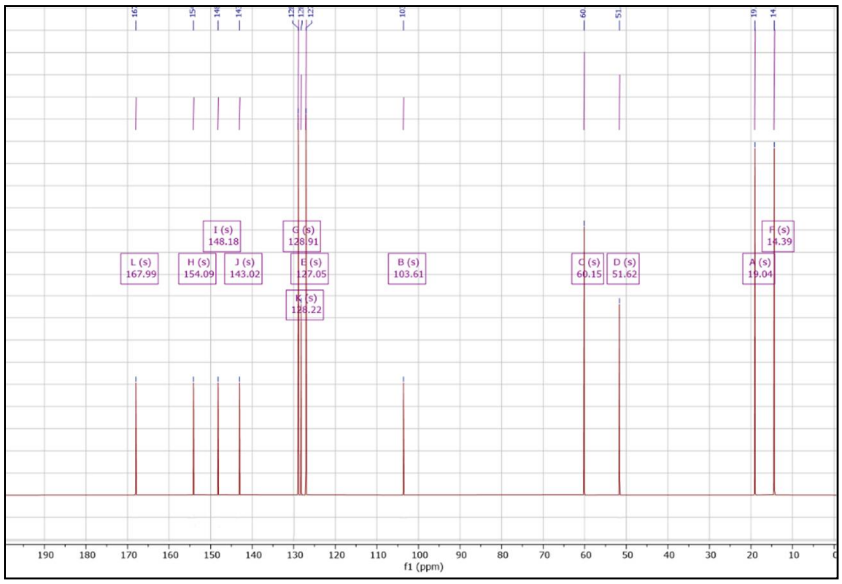


Figure 15. [13]C NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-phenyl)-3,4-dihydropyrimidin-2(1*H*)-one (BG1)

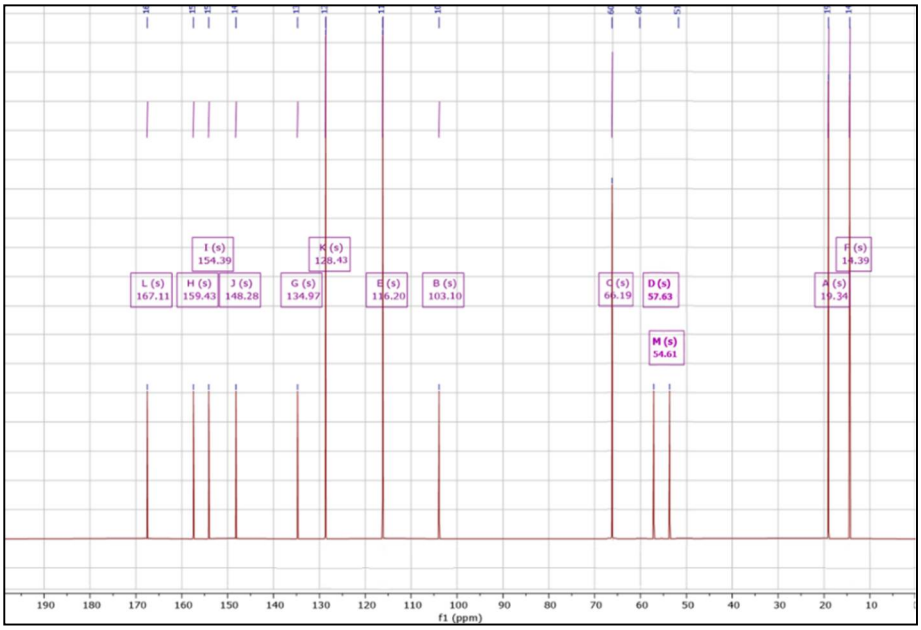


Figure 16. ^{13}C NMR Spectrum of 5-(Ethoxycarbony)-6-methyl-(4-Methoxyphenyl)-3,4-dihydropyrimidin-2(1*H*)-one (BG2)

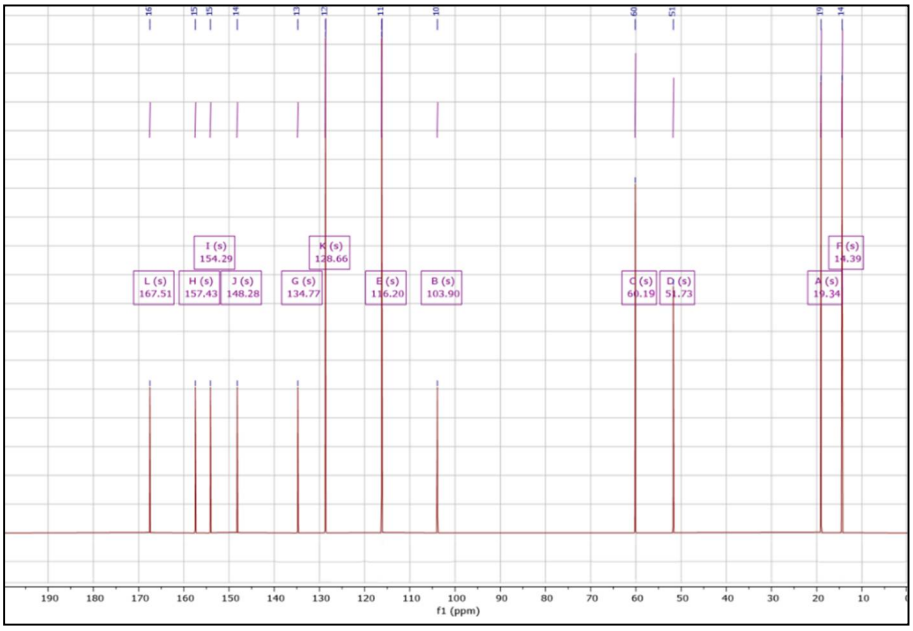


Figure 17. ^{13}C NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-hydroxyphenyl)-3,4-dihydropyrimidin-2(1*H*)-one (BG3)

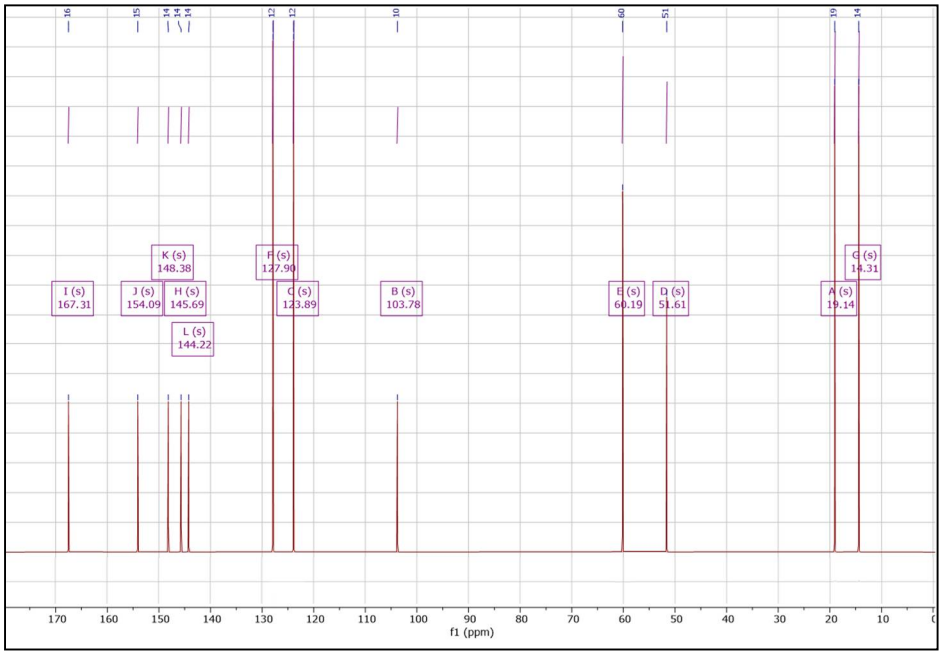


Figure 18. ^{13}C NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(nitropropyl)-3,4-dihydropyrimidine-2(1*H*)-one (BG4)

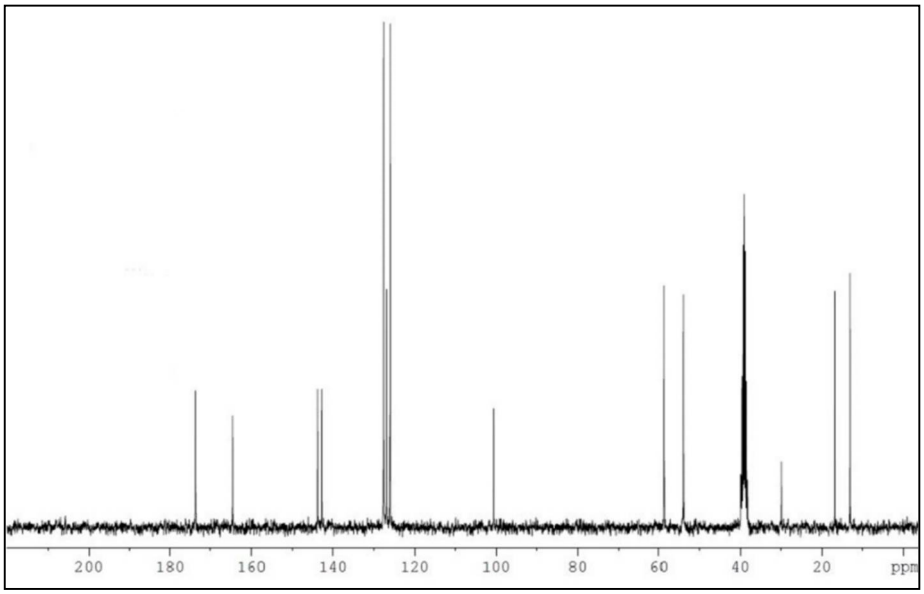


Figure 19. ^{13}C NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-phenyl)-3,4-dihydropyrimidin-2(1*H*)-thione (BG5)

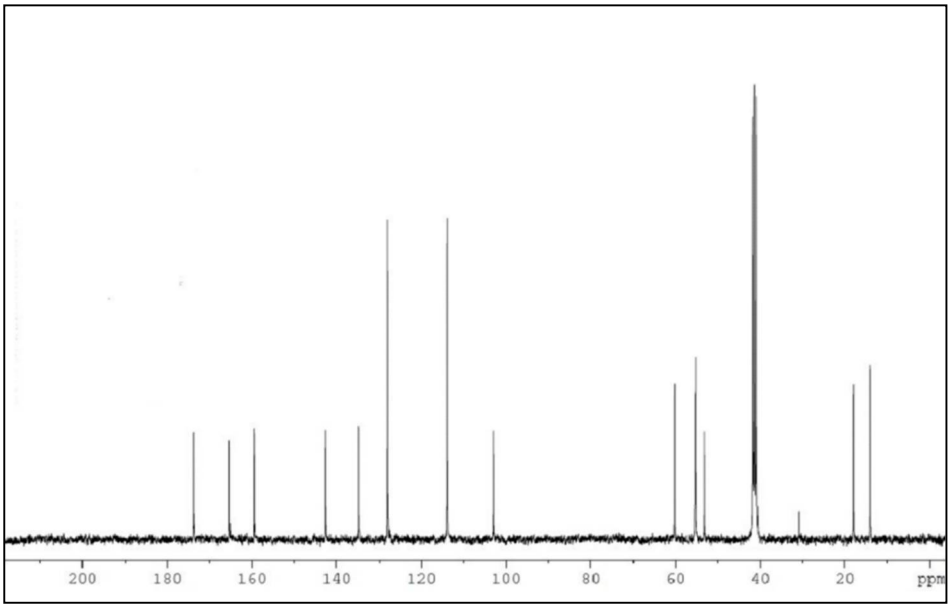


Figure 20. ^{13}C NMR Spectrum of 5-(Ethoxycarbony)-6-methyl-(4-Methoxyphenyl)-3,4-dihydropyrimidin-2(1*H*)-thione (BG6)

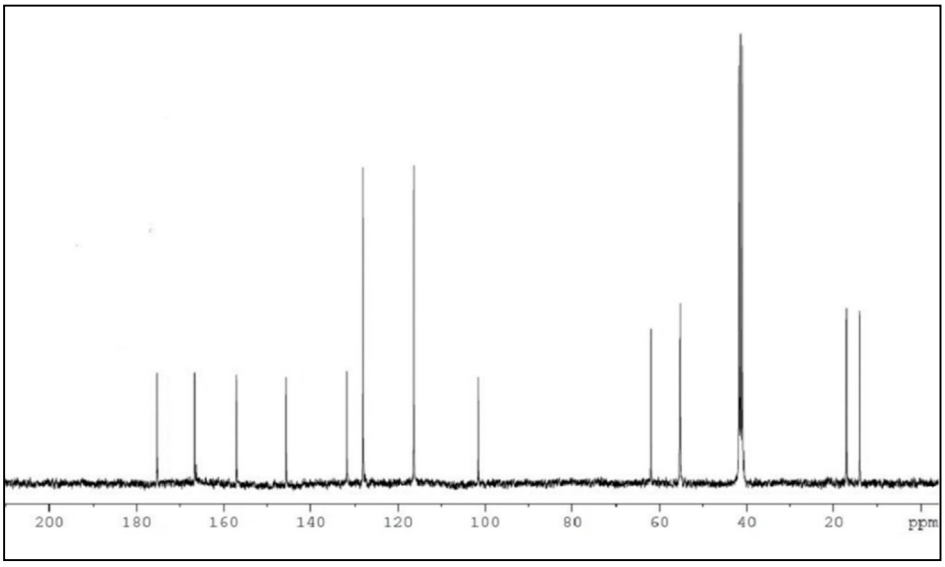


Figure 21. ^{13}C NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-hydroxyphenyl)-3,4-dihydropyrimidin-2(1*H*)-thione (BG7)

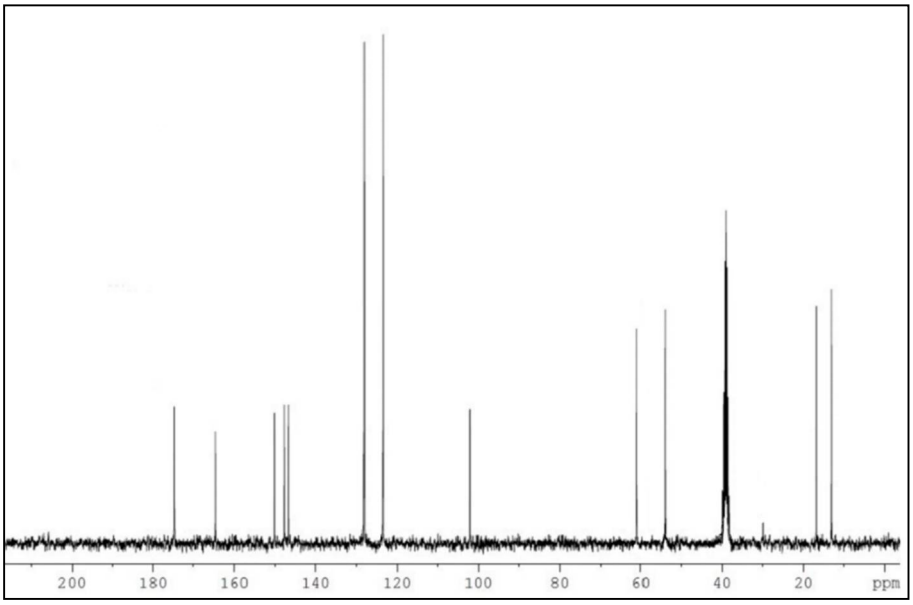


Figure 22. ^{13}C NMR Spectrum of 5-(Ethoxycarbonyl)-6-methyl-4-(4-nitrophenyl)-3,4-dihydropyrimidin-2(1*H*)-thione (BG8)

LCMS Spectra

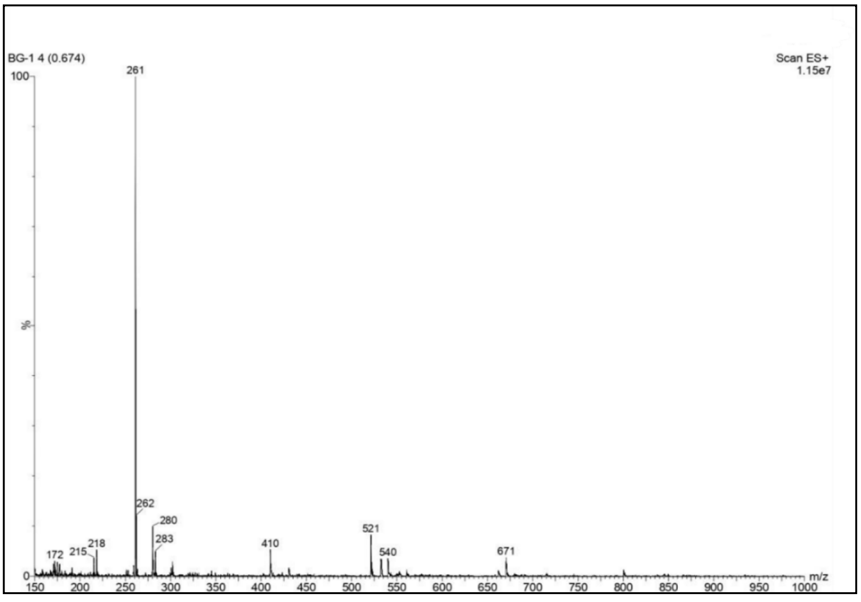


Figure 23. LCMS Spectrum of 5-(Ethoxycarbony)-6-methyl-(4-phenyl)-3,4-dihydropyrimidin-2(1*H*)-one (BG1)

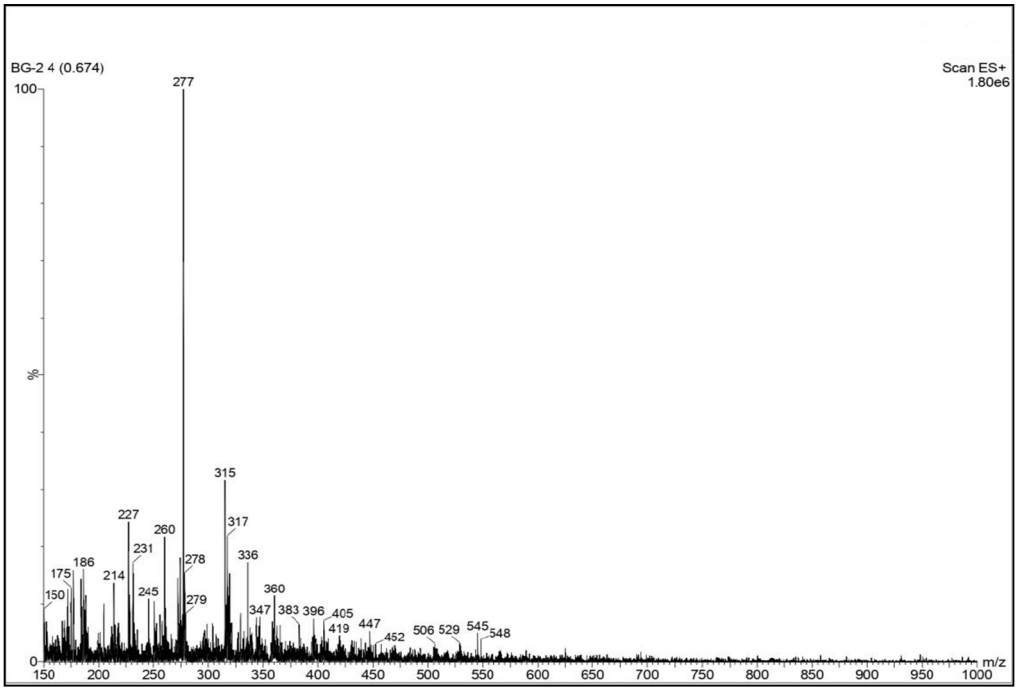


Figure 24. LCMS Spectrum of 5-Ethoxycarbonyl-6-methyl-4-(4-hydroxyphenyl)-3,4-dihydropyrimidin-2(1*H*)-one (BG3)