LIST OF TABLES

Table – 1  Synthesis of 46a-e using MW irradiation.  41
Table – 2  Crystal data and structure refinement of 48b, 48c and 48d.  47
Table – 3  Synthesis of 60a-e using MW irradiation.  72
Table – 4  Synthesis of 88a-e using MW irradiation.  129
Table – 5  Antiinflammatroy, ulcerogenic, cycloxygenase and toxicity data of compounds 49a-e.  158
Table – 6  Antiinflammatroy, ulcerogenic, cycloxygenase and toxicity data of compounds 79a-e.  160
Table – 7  Results of antibacterial activity of compounds 60a-e.  163
Table – 8  The MIC of compounds 107a-e for antifungal activity.  166

LIST OF FIGURES

Figure – 1  Topological relationship of inhibitor and a substrate.  12
Figure – 2  Ortep of compound 48b at 50% probability.  48
Figure – 3  Ortep of compound 48c at 50% probability.  48
Figure – 4  Ortep of compound 48d at 50% probability.  49