TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>CHAPTER NO</th>
<th>TITLE</th>
<th>PAGE NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABSTRACT</td>
<td>vi</td>
<td></td>
</tr>
<tr>
<td>LIST OF TABLES</td>
<td>xi</td>
<td></td>
</tr>
<tr>
<td>LIST OF FIGURES</td>
<td>xii</td>
<td></td>
</tr>
<tr>
<td>LIST OF SYMBOLS AND ABBREVIATION</td>
<td>xiv</td>
<td></td>
</tr>
</tbody>
</table>

1. INTRODUCTION 1
2. REVIEW OF LITERATURE 3
   2.1. Historical perspective 3
   2.2. Current taxonomy 3
   2.3. Natural habitat 5
   2.4. Pathogenesis of Acinetobacter infections 5
   2.5. Antibiotic resistance 8
   2.6. Therapy of Acinetobacter infection 15
   2.7. Prevention and control 17
   2.8. Magnitude of the problem 19
   2.9. Virulence factors 19
   2.10. Trimeric autotransporter 20

Part-1 Evaluation of drug resistance in Acinetobacter 29

3. AIMS & OBJECTIVES 30
4. MATERIALS AND METHODS 31
   4.1. Duration of sample collection 31
   4.2. Inclusion and exclusion criteria 31
   4.3. Collection of specimen 32
   4.4. Antimicrobial susceptibility testing 32
   4.5. Agar dilution method (MIC) 33
10.3. Antiserum to Ata mediates the complement dependent bactericidal killing of *A. baumannii* 68

10.4. Ata is a target of protective immunity 70

11. DISCUSSION 77

12. CONCLUSION 80

13. APPENDIX 82

14. BIBLIOGRAPHY 92

15. LIST OF PUBLICATION 112

16. VITAE 113