# LIST OF TABLES

<table>
<thead>
<tr>
<th>Tables</th>
<th>Captions</th>
<th>Page no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 1.1</td>
<td>Major challenges for manufacturing and control.</td>
<td>4</td>
</tr>
<tr>
<td>Table 1.2</td>
<td>Chemistry, manufacturing and control testing conducted in the drug development pathway.</td>
<td>6</td>
</tr>
<tr>
<td>Table 1.3</td>
<td>Components of stability testing protocol.</td>
<td>9</td>
</tr>
<tr>
<td>Table 1.4</td>
<td>Assay of drugs in pharmaceutical formulation by UV-visible spectrophotometric procedures.</td>
<td>19</td>
</tr>
<tr>
<td>Table 1.5</td>
<td>Validation of analytical methods International definitions.</td>
<td>27</td>
</tr>
<tr>
<td>Table 1.6</td>
<td>Quantitative approaches to demonstrate accuracy according to ICH.</td>
<td>30</td>
</tr>
<tr>
<td>Table 1.7</td>
<td>Approaches for determining the detection and quantitation limits.</td>
<td>32</td>
</tr>
<tr>
<td>Table 2.1</td>
<td>Regression data for captopril using initial rate method.</td>
<td>74</td>
</tr>
<tr>
<td>Table 2.2</td>
<td>Intraday and Interday assays.</td>
<td>75</td>
</tr>
<tr>
<td>Table 2.3</td>
<td>Determination of captopril in pharmaceutical formulations using standard addition technique.</td>
<td>76</td>
</tr>
<tr>
<td>Table 2.4</td>
<td>Point and interval hypotheses: comparison of the proposed method with the reference method.</td>
<td>77</td>
</tr>
<tr>
<td>Table 3.1</td>
<td>Optical characteristics and statistical data for the regression equation.</td>
<td>101</td>
</tr>
</tbody>
</table>
Table 3.2  Test of precision and accuracy of the proposed methods.  
Table 3.3  Assay results of lisinopril in pharmaceutical preparations by proposed procedures using standard addition techniques.  
Table 3.4  Comparison of the TCNQ method with the reference method.  
Table 3.5  Comparison of the pCA method with the reference method.  
Table 4.1  Optical and regression characteristics of fixed time method.  
Table 4.2  Accuracy and precision of within and between run analyses for the determination of labetalol hydrochloride by initial rate and fixed time methods.  
Table 4.3  Standard addition method for the determination of labetalol hydrochloride in dosage forms by initial rate and fixed time methods.  
Table 4.4  Comparison of results for the determination of labetalol hydrochloride in laboratory made tablets.  
Table 5.1  Optical and regression characteristics of initial rate method.  
Table 5.2  Evaluation of accuracy and precision of the proposed method.  
Table 5.3  Accuracy and Recovery.  
Table 5.4  Comparison of proposed method with the reference method.