### LIST OF TABLE

<table>
<thead>
<tr>
<th>Table No.</th>
<th>Chapter-3:- Literature Review</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Drug interactions of tolbutamide with Acebutolol, Acenocoumarol, Acetylsalicylic acid, Atenolol, Bisoprolol, Bosantan, Carvedilol, Celecoxib and Chloramphenicol {Reference:- Drug Bank; Accession Number:- DB01124 (APRD00267)}</td>
<td>64</td>
</tr>
<tr>
<td>2.</td>
<td>Drug interactions of tolbutamide with Dapsone, Delavirdine, Digoxin, Esmolol, Flouxuridine, Fluconazole, Fluorouracil and Fluoxetine {Reference:- Drug Bank; Accession Number:- DB01124 (APRD00267)}</td>
<td>65</td>
</tr>
<tr>
<td>3.</td>
<td>Drug interactions of tolbutamide with Flurbiprofen, Fosphenytoin, Gemfibrizol, Glimepiride, Glipizide, Ibuprofen and Indomethacin {Reference:- Drug Bank; Accession Number:- DB01124 (APRD00267)}</td>
<td>65</td>
</tr>
<tr>
<td>4.</td>
<td>Drug interactions of tolbutamide with Ketamine, Ketoconazole, Labetalol, Losartan, Lumiracoxib, Mefenamic acid, Mestranol and Metoprolol {Reference:- Drug Bank; Accession Number:- DB01124 (APRD00267)}</td>
<td>66</td>
</tr>
<tr>
<td>5.</td>
<td>Drug interactions of tolbutamide with Miconazole, Montelukast, Nadolol, Nateglinide, Nicardipine, Oxprenolol, Paclitaxel and Phenylbutazone {Reference:- Drug Bank; Accession Number:- DB01124 (APRD00267)}</td>
<td>66</td>
</tr>
<tr>
<td>6.</td>
<td>Drug interactions of tolbutamide with Phenytoin, Pindolol, Piroxicam, Propranolol, Rifampicin, Sitaxentan, Somatropin and Sulfadiazine {Reference:- Drug Bank; Accession Number:- DB01124 (APRD00267)}</td>
<td>67</td>
</tr>
<tr>
<td>7.</td>
<td>Drug interactions of tolbutamide with Sulfamethoxazole, Sulfinpyrazone, Sulfoxazole, Tamoxifen, Timolol, Torasemide and Trimethoprim {Reference:- Drug Bank; Accession Number:- DB01124 (APRD00267)}</td>
<td>67</td>
</tr>
</tbody>
</table>
Drugs interactions of tolbutamide with Voriconazole, Warfarin, Zafirlukast and Zopiclone {Reference:- Drug Bank; Accession Number:- DB01124 (APRD00267)}

**Chapter-4:- Analytical Method Validation**

1. Results of System Suitability

2. Precision and Accuracy of Tolbutamide at HQC, MQC and LQC level with ISTD Intra day

3. Precision and Accuracy of Tolbutamide at HQC, MQC and LQC level with ISTD Inter day

4. Sensitivity Test Results

**Chapter-5:- Bio-analytical Method Validation**

1. Results of System Suitability

2. Selectivity of Tolbutamide and Diphenhydramine (ISTD) in Sprague Dawley Rat Plasma

3. Auto-sampler carryover test for Tolbutamide and Diphenhydramine (ISTD)

4. Adjustment bend of Tolbutamide in Sprague Dawley Rat Plasma

5. Inside of Batch (Intra-Day) Precision and Accuracy of Tolbutamide in Sprague Dawley Rat Plasma

6. Between Batch (Inter-Day) Precision And Accuracy of Tolbutamide In Sprague Dawley Rat Plasma

7. Recovery of Tolbutamide in Sprague Dawley Rat Plasma

8. Recovery of Diphenhydramine (ISTD) in Sprague Dawley Rat Plasma

9. Matrix factor of Tolbutamide in Sprague Dawley Rat Plasma

10. Dilution Integrity of Tolbutamide in Sprague Dawley Rat Plasma

11. Hemolysis Effect of Tolbutamide in Sprague Dawley Rat Plasma

12. Bench-Top Stability of Tolbutamide in Sprague Dawley Rat Plasma

13. Re-Injection Reproducibility
| 14. | Freeze-Thaw stability | 166 |
| 15. | Long-Term stability for 62 days of Tolbutamide in Matrix | 167 |
| 16. | Transient stock and operational arrangements strength of Tolbutamide and ISTD | 168-169 |
| 17. | Long haul stock and operational arrangements solidness of Tolbutamide and ISTD | 170 |

**Chapter-7:- Formulation Analysis and Stability Studies**

1. Results of System Suitability | 213 |
2. Homogeneity of Tolbutamide in dose formulation at 40 and 160 mg/mL | 214 |
3. Bench top stability of Tolbutamide in dose formulation at 40 and 160 mg/mL | 215 |
4. Long term stability of Tolbutamide in dose formulation at 40 and 160 mg/mL | 216 |

**Chapter-8:- Pharmacokinetic Study**

1. Results of System Suitability | 231-232 |
2. Calibration curve values for analytical batches analysed during study | 232 |
3. Exactness and precision values for quality control tests of tolbutamide expository clusters investigated amid study | 233-234 |
4. Pharmacokinetic parameters of Tolbutamide in Male sprague dawley rats on Day-1 | 235 |
5. Pharmacokinetic parameters of Tolbutamide in Female sprague dawley rats on Day-1 | 236 |
6. Pharmacokinetic parameters of Tolbutamide in Male sprague dawley rats on Day-28 | 237 |
7. Pharmacokinetic parameters of Tolbutamide in Female sprague dawley rats on Day-28 | 238 |