DISCUSSION OF RESULTS
CHAPTER 6
DISCUSSIONS OF RESULTS

Table 5.5 shows the values of weight variation, drug content, folding endurance, thickness, moisture uptake and loss of moisture. The mean drug content of films was found to be 3.83±0.14 mg, 3.95±0.15 mg, 3.86±0.08 mg and 3.93±0.15 mg for the formulations PPL 1, PPL 2, PPL 3 and PPL 4 correspondingly.

The weight of the films was found to be 27.22±0.35 mg, 26.09±0.18 mg, 27.28±0.47 mg and 26.28±0.16 mg for the formulations PPL 1, PPL 2, PPL 3 and PPL 4 correspondingly.

The thickness was found to be 291±2.08 µm, 258±1.52 µm, 253±2 µm and 271±2.51 µm for the formulations PPL 1, PPL 2, PPL 3 and PPL 4 correspondingly.

The mean folding endurance values were found to be 231±9.16, 243±7.02, 299±2.51 and 239±7.53 for the formulations PPL 1, PPL 2, PPL 3 and PPL 4 respectively. Folding endurance of the films was in the order PPL 3>PPL 2>PPL 4>PPL 1. Formulation PPL 3 showed maximum folding endurance may be due to the presence of eudragit 125, 129. The folding endurance of all the films was optimum, the films exhibited good physical and mechanical properties.

The general moisture uptake was low (~10%), which was acceptable for the patches. Thus the common physical parameters are adequate.
Table 5.25 shows the values of weight variation, drug content, thickness, moisture uptake, loss of moisture and folding endurance. The mean drug content of films was found to be 3.86±0.71 mg, 3.88±0.35 mg, 4.02±0.17 mg and 3.97±0.18 mg for the formulations TPL 1, TPL 2, TPL 3 and TPL 4 correspondingly.

The weight of the films was found to be 28.98±0.51 mg, 29.12±0.15 mg, 27.80±0.32 mg and 26.79±0.31 mg for the formulations TPL 1, TPL 2, TPL 3 and TPL 4 correspondingly.

The thickness was found to be 272±1.53 µm, 274±2 µm, 251±0.58 µm and 262±1.16 µm for the formulations TPL 1, TPL 2, TPL 3 and TPL 4 correspondingly.

The mean folding endurance values were found to be 244±6.51, 285±6, 295±6.5 and 267±7.02 for the formulation TPL 1, TPL 2, TPL 3 and TPL 4 correspondingly. Folding endurance of the films was in the following order TPL 1>TPL 4>TPL 3>TPL 2. The folding endurance of all the films was optimum, the films showed good physical and mechanical properties.

The general moisture uptake was low (~10%), which was acceptable for the patches. Thus the common physical properties are reasonable.

Table 5.43 shows the values of weight variation, drug content, thickness, loss of moisture, moisture uptake and folding endurance. The mean drug content of patches was found to be 9.98±0.14 mg,
10.08±0.13 mg, 9.93±0.05 mg and 9.94±0.16 mg for the formulations VPML 1, VPML 2, VPML 3 and VPML 4 correspondingly.

The weight of the patches was found to be 26.22±0.35 mg, 27.09±0.18 mg, 28.28±0.47 mg and 27.28±0.16 mg for the formulations VPML 1, VPML 2, VPML 3 and VPML 4 correspondingly.

The thickness was found to be 281±2.08 µm, 246±1.52 µm, 249±2 µm and 261±2.51 µm for the formulations VPML 1, VPML 2, VPML 3 and VPML 4 correspondingly.

The mean folding endurance values were found to be 181±9.16, 213±7.02, 273±2.51 and 223±7.5 for the formulation VPML 1, VPML 2, VPML 3 and VPML 4 correspondingly. Folding endurance of the patches was in the order VPML 4>VPML 1>VPML 2>VPML 3. The folding endurance of all the films was optimum, the films exhibited good physical and mechanical properties.

The general moisture uptake was low (~10%), which was adequate for the patches. Thus the common physical properties are reasonable.