

Table 3.2: Dissolution Study of Pure Drug

Time (min.)	Cumulative % drug release
0	0.00
5	10.25±0.64
10	11.12±0.44
15	13.07±0.91
20	15.20±0.75
25	16.59±0.14
30	18.37±0.42
40	21.35±0.34

Results are the mean of three determinations

The % drug release of pure drug after 40 min was 21.35% each reading is taken was triplicate and then mean values were calculated.

2. Dissolution Profile of Solid Dispersions Prepared by Kneading Method

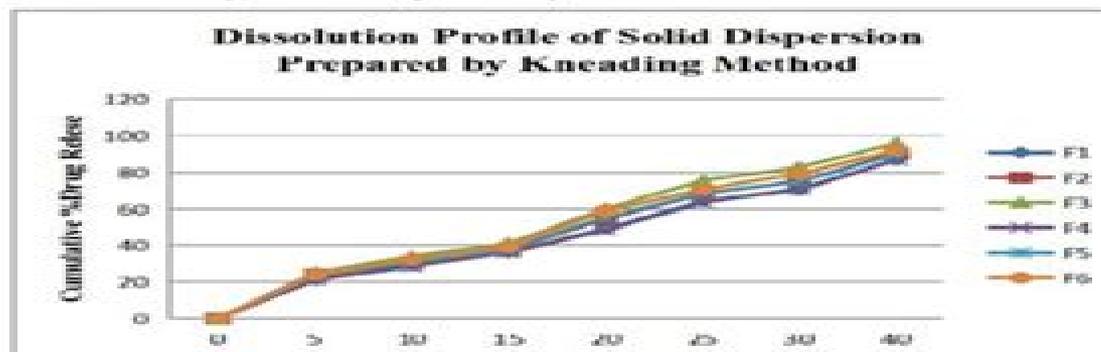
The formulations of solid dispersions prepared by Kneading method(F1-F6) were subjected to dissolution study. The percentage drug release of formulations is showed in Table 10.12 and accordingly the graph was plotted to calculate the percentage drug release of formulations in 0.1N HCl and it is shown in Figure 2.8.

Table 3.3: Dissolution Profile of Solid Dispersions Prepared by Kneading Method

Time(min)	Cumulative % Drug Release					
	F1	F2	F3	F4	F5	F6
0	00	00	00	00	00	00
5	31.54±0.21	33.27±0.25	36.43±0.22	30.31±0.57	32.04±0.35	33.45±0.20
10	44.28±0.25	47.13±0.14	48.53±0.32	43.00±0.42	45.13±0.54	48.32±0.23
15	55.02±0.13	59.04±0.46	61.08±0.71	68.06±0.35	59.10±0.26	59.25±0.45
20	68.18±0.18	70.76±0.51	72.17±0.64	75.80±0.18	69.76±0.46	71.86±0.64
25	77.96±0.94	80.17±0.15	82.50±0.24	82.50±0.78	76.03±0.37	80.39±0.32
30	85.70±0.34	87.93±0.42	90.36±0.82	85.05±0.46	84.63±0.48	88.24±0.24
40	90.93±0.21	92.92±0.81	96.61±0.37	89.02±0.63	91.85±0.78	94.61±0.37

Results are the mean of three determinations

Out of Six formulations F3 showed maximum drug release i.e. 96.61 %. Solid dispersion (F3) of Carvedilol with PEG 6000 prepared by Kneading method showed significant improvement in solubility and dissolution rate. Increased wetting and solubilizing effect of PEG 6000 as well as the molecular dispersion of drug in solid dispersion and alteration of surface properties of drug particle may be responsible for the enhanced dissolution rate of Carvedilol from solid dispersion compared to pure Carvedilol.

**Figure 2.8: Dissolution Profile of Solid Dispersions Prepared by Kneading Method**

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N Colangelo



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