

Table 10 : Results of Linearity of Esomeprazole

Concentration %	Average area	RSD%
50 (57.8mg/L)	661967	1.23
80 (86.48mg/L)	966758	1.21
100 (115.6mg/L)	1299576	1.05
120 (142.72mg/L)	1605229	1.16
150 (173.4mg/L)	1934556	1.13

$$R^2 = 0.9998$$

$$\text{slope} = 11075$$

$$\text{Intercept} = 17819$$

$$\text{LOQ} = 10.8 \text{ mg/L}$$

$$\text{LOD} = 3.6 \text{ mg/L}$$

The equation of calibration curve is $\text{Absorbance} = 11075x + 17819$

The calibration curve of peak area versus conc. % for esomeprazole is shown in figure (9).