

**Table 10 : Results of Linearity of Esomeprazole**

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