

Given these results the slight change in wavelength ( $\pm 3$ ) gave a slight variation in AUCs of esomeprazole and tadalafil, but RSD% values remain within the accepted range ( $< 2\%$ ) and hence the results are validate and the method is robust.

### 3.6.2 Robustness Regarding pH Changing ( $\pm 0.2$ )

According to change pH  $\pm 0.2$  units, the main pH based in this method is 6.0 and the results obtained are shown in tables (20, 21), and chromatograms are shown in figures (25,26).

**Table (20): Robustness regarding pH +0.2**

Parameters	pH 6.00		pH 6.20	
	Esomeprazole	Tadalafil	Esomeprazole	Tadalafil
<b>Average Area</b>	1299576	1044488	1388191	1150011
<b>RSD%</b>	0.28	1.19	0.26	0.76
<b>Theoretical plates</b>	9017	9907	4395	5002
<b>Asymmetry</b>	1.06	1.03	1.10	1.03
<b>Resolution</b>	N.A	4.15	N.A	2.89