

Given these results the slight change in wavelength (± 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 (± 0.2)

According to change pH ± 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 |
| Average Area | 1299576 | 1044488 | 1388191 | 1150011 |
| RSD% | 0.28 | 1.19 | 0.26 | 0.76 |
| Theoretical plates | 9017 | 9907 | 4395 | 5002 |
| Asymmetry | 1.06 | 1.03 | 1.10 | 1.03 |
| Resolution | N.A | 4.15 | N.A | 2.89 |