

### 3.5 Stability of Analytical Solution

The stability of solution should be evaluated by storing the solution under known concentration at room temperature and fridge for 24 and 48 hours compared to fresh standard solution. 100% concentration level is analyzed against standard solution, for each sample the concentration is 120 µg/mL of esomeprazole, and 80 µg/mL of tadalafil. The stability results within stated limit of range 98%-102% in 24 hrs are listed in tables (14,15) and figures (19,20).

**Table (14): Results of Stability Test of Eomeprazole After 24 hrs.**

<b>Time and Temp.</b>	<b>Average of AUCs of</b>		<b>Assay%</b>	
	<b>Esomeprazole.</b>			
	<b>(120µg/mL)</b>			
<b>Standard solution</b>	Nexium®	Pumpinox®	Nexium®	Pumpinox®
<b>24 hr at 25 °C</b>	1499391	1688018	98.77	99.6
<b>24 hr at 4 °C</b>	1507655	1688511	98.23	99.55