

CHAPTER V

CONCLUSION

From this study , it can be concluded as follows:

1. The target solubility (20 mg/ml) of piroxicam can be achieved by using 40% v/v of propylene glycol, nicotinamide concentration of 250 mg/ml, and Mc. Ilvain buffer (citrate phosphate buffer) starting from pH 7 and higher.

2. From the physical and chemical stabilities point of view, the most stable piroxicam injection formulated was composed of propylene glycol 40% v/v, nicotinamide 250 mg, citrate-phosphate buffer pH 7.5, sodium sulfite 0.15% w/v, benzyl alcohol 2% v/v and water for injection qs 1 ml.

3. The shelf-life of the most stable formulated product was not significantly different from that of the innovator's product and shown to be more than two years.