

CHAPTER 6

6.0 CONCLUSION

The present studied had successfully carried out an experiment exploring the possibility of producing microencapsulation of Tienam® (source of Imipenem) antibiotics in Polyethylene glycol (PEG). The production of microencapsulated product carried out in this studied proved that both low and high molecular weight of PEG can be used as a second material to encapsulated the Tienam® antibiotic.

In thermal analysis studied the method that we chosen which Differential Scanning Calorimeter was prove to be the best and reliable method to characteristic on the thermal properties of the tested sample.

Based on the findings, we could conclude that high molecular weight of the PEG was the best choice to be use for microencapsulation process of Tienam®.