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APPENDIX

The Calibration Curve of Ciprofloxacin (CPF) by UV-Vis Spectroscopy

Due to *in vitro* drug release, the mats will be investigated in PBS and acetate buffer *in vitro* for a human blood's and skin's pH at 7.4 and 5.5, respectively. First of all, the concentration of Ciprofloxacin will be measured by constructing a calibration curve in different solution (Cazedey *et al.*, 2013). Observing the highest peak of spectrum in ciprofloxacin can explained the main functional group of CPF at $\lambda_{\max} = 277$ nm 272 nm for acetate buffer (pH 5.5) and PBS (pH 5.5), respectively as shown in Figure A1 and A2.

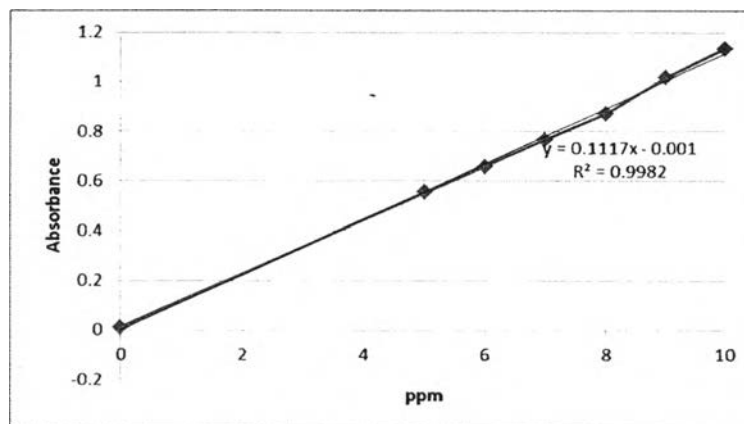


Figure A1 The calibration curve of ciprofloxacin in acetate buffer (pH 5.5).

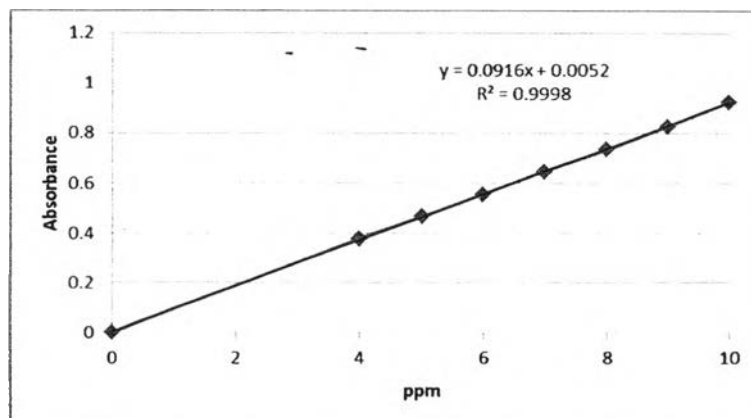


Figure A2 The calibration curve of ciprofloxacin in PBS (pH 7.4).

CURRICULUM VITAE

Name: Mr. Sonthaya Chairwut

Date of Birth: July 1, 1989

Nationality: Thai

University Education:

2008–2011 Bachelor Degree of Chemistry, Faculty of Science,
Chulalongkorn University, Bangkok, Thailand

Proceeding:

1. Chairwut, S.; and Supaphol, P. (2014, April 22) Development of electrospun adhesive layer containing ciprofloxacin/coconut oil for antibacterial wound dressing. Proceedings of The 5th Research Symposium on Petrochemical and Materials Technology and The 20th PPC Symposium on Petroleum, Petrochemicals, and Polymers, Bangkok, Thailand.

Presentation:

1. Chairwut, S.; and Supaphol, P. (2014, May 15-18) Development of electrospun adhesive layer containing ciprofloxacin/coconut oil for antibacterial wound dressing. Poster presented at The European Biotechnology Congress 2014, Lecce, Italy.