

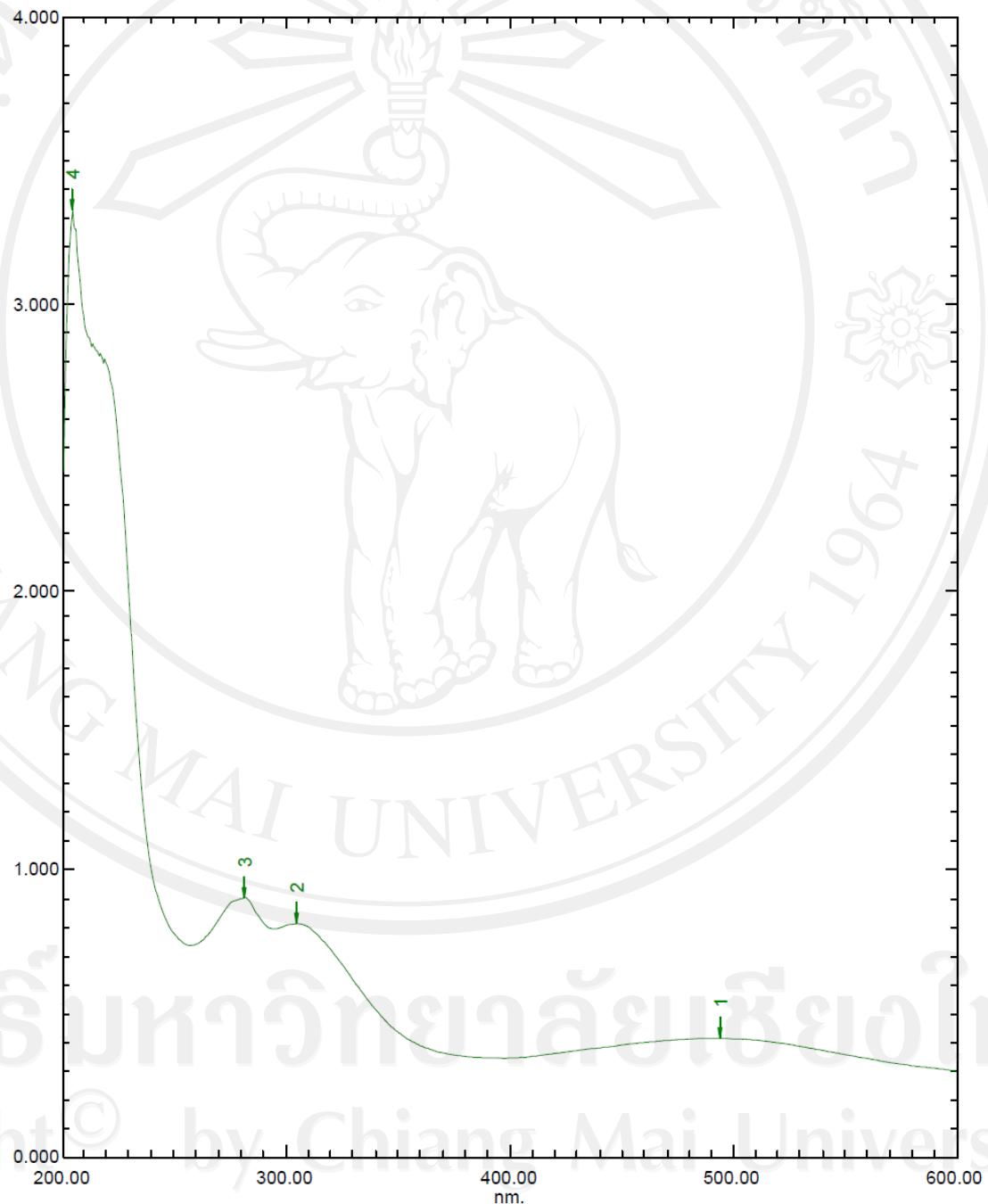


APPENDICES

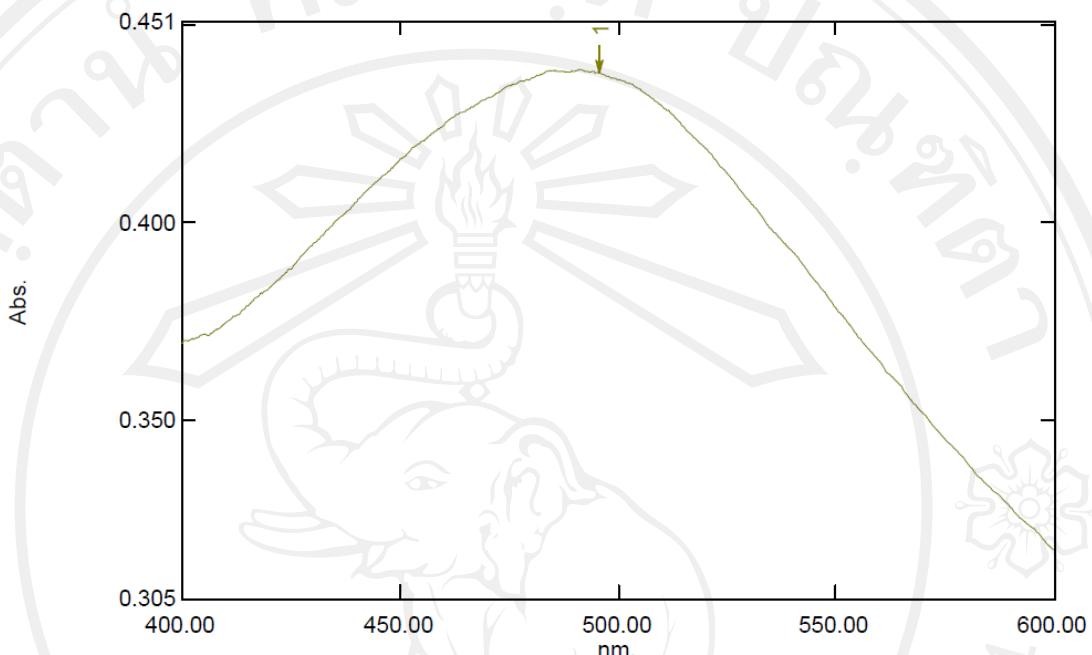
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APPENDIX I

Overlay Spectrum Graph Report of tyrosinase activity



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Measurement Properties

Wavelength Range (nm.): 400.00 to 600.00
 Scan Speed: Medium
 Sampling Interval: 0.2
 Auto Sampling Interval: Enabled
 Scan Mode: Single

Sample Preparation Properties

Weight:
 Volume:
 Dilution:
 Path Length:
 Additional Information:

Instrument Properties

Instrument Type: UV-2400PC Series
 Measuring Mode: Absorbance
 Slit Width: 1.0 nm
 Light Source Change Wavelength: 360.0 nm
 S/R Exchange: Normal

Attachment Properties

Attachment: None

APPENDIX II

The release rate of clotrimazole from microemulsions and the ANOVA test of all formulation in the experiments

Formula	Release rate (%/mins)							
	No1	No.2	No.3	No.4	No.5	No.6	Average	S.D.
LM-2	0.1106	0.1057	0.1056	0.1296	0.1296	0.108	0.1149	0.0106
LM-3	0.1228	0.1229	0.1215	0.1213	0.1312	0.1285	0.1247	0.0038
LM-4	0.1084	0.1087	0.1089	0.109	0.1065	0.1058	0.1079	0.0013
LM-5	0.1084	0.1043	0.1166	0.114	0.151	0.1509	0.1242	0.0191
DF	0.0504	0.0505	0.056	0.056	0.0437	0.0436	0.0500	0.0051
SE-2	0.0347	0.0347	0.0413	0.0415	0.042	0.042	0.0394	0.0033
SE-3	0.0733	0.0736	0.0587	0.0591	0.0753	0.0709	0.0685	0.0069
SE-4	0.0369	0.037	0.0381	0.0377	0.0365	0.0365	0.0371	0.0006
SE-5	0.0527	0.0556	0.0471	0.0471	0.0494	0.0513	0.0505	0.0030

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.068	8	.008	107.280	.000
Within Groups	.004	45	.000		
Total	.072	53			

CURRICULUM VITAE

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List of publication

Journal

Kiattisak Saeio, Wantida Chaiyana, Siriporn Okonogi, Antityrosinase and antioxidant activities of essential oils of edible Thai plants. Drug Discovery & Therapeutic. 2011; 5(3): 144-149

Kiattisak Saeio, Songwut Yotsawimonwat, Songyot Anuchapreeda, Siriporn Okonogi, Development of microemulsion of a potent anti-tyrosinase essential oil of an edible plant. Drug Discovery & Therapeutic. 2011; 5(5): 246-252

Wantida Chaiyana, **Kiattisak Saeio**, Wim E. Hennink, Siriporn Okonogi, Characterization of potent anticholinesterase plant oil base microemulsion. International Journal of Pharmaceutics. 2010;401:32-40

Presentation

W. Chaiyana, **K. Saeio**, Wim E. Hennink , S. Okonogi, Encapsulation of potent anticholinesterase essential oil by microemulsion technique: Study of phase diagram. The Twelfth RGJ-Ph.D. Congress (RGJ-Ph.D. Congress XII). 1-3 April 2011, Jomtien Palm Beach

S. Okonogi, **K. Saeio**, W. Chaiyana, S. Yotwimonwat, W. Niwatananan, Encapsulation of sesame oil by microemulsion technique: Study of phase diagram. XVII International Conference on Bioencapsulation. 24-26 September 2009, Groningen, Netherlands