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## APPENDIX

APPENDIX 1: Turk Island Salt Solution + modified BG<sub>11</sub> medium contained the following components:

### 1. Preparation of Turk Island Salt Solution

Stock Solution A : KCl	33.3	g
MgCl <sub>2</sub> .6H <sub>2</sub> O	275.0	g
CaCl <sub>2</sub> .2H <sub>2</sub> O	73.3	g

and made up to 5 litres with distilled water

Stock Solution B : MgSO<sub>4</sub>.7H<sub>2</sub>O 347.0 g and then made up to 5 litres with distilled water

### 2. Composition of modified BG<sub>11</sub> medium ( BG<sub>11</sub> medium + NaNO<sub>3</sub> Solution )

NaNO <sub>3</sub>	( 75 g/500 ml )	50	ml
KH <sub>2</sub> PO <sub>4</sub>	( 8 g/200 ml )	5	ml
MgSO <sub>4</sub> .7H <sub>2</sub> O	( 15 g/200 ml )	5	ml
CaCl <sub>2</sub> .2H <sub>2</sub> O	( 7.2 g/200 ml )	5	ml
Na <sub>2</sub> CO <sub>3</sub>	( 4 g/200 ml )	5	ml
Citric acid	( 1.2 g/200 ml )	5	ml
EDTA.Na <sub>2</sub>	( 0.2 g/200 ml )	5	ml
FeSO <sub>4</sub> .7H <sub>2</sub> O	( 1.2 g/200 ml )	5	ml

\*Trace element A<sub>5</sub> Solution + Co contained the following component in gram per litre ; H<sub>3</sub>BO<sub>4</sub> : 2.86 ; ZnSO<sub>4</sub>.7H<sub>2</sub>O : 0.22 ; CuSO<sub>4</sub>.5H<sub>2</sub>O : 0.08 ; MnCl<sub>2</sub>.4H<sub>2</sub>O : 1.81 ; Na<sub>2</sub>MoO<sub>4</sub>.2H<sub>2</sub>O : 0.39 ; Co(NO<sub>3</sub>)<sub>2</sub>.6H<sub>2</sub>O : 0.049

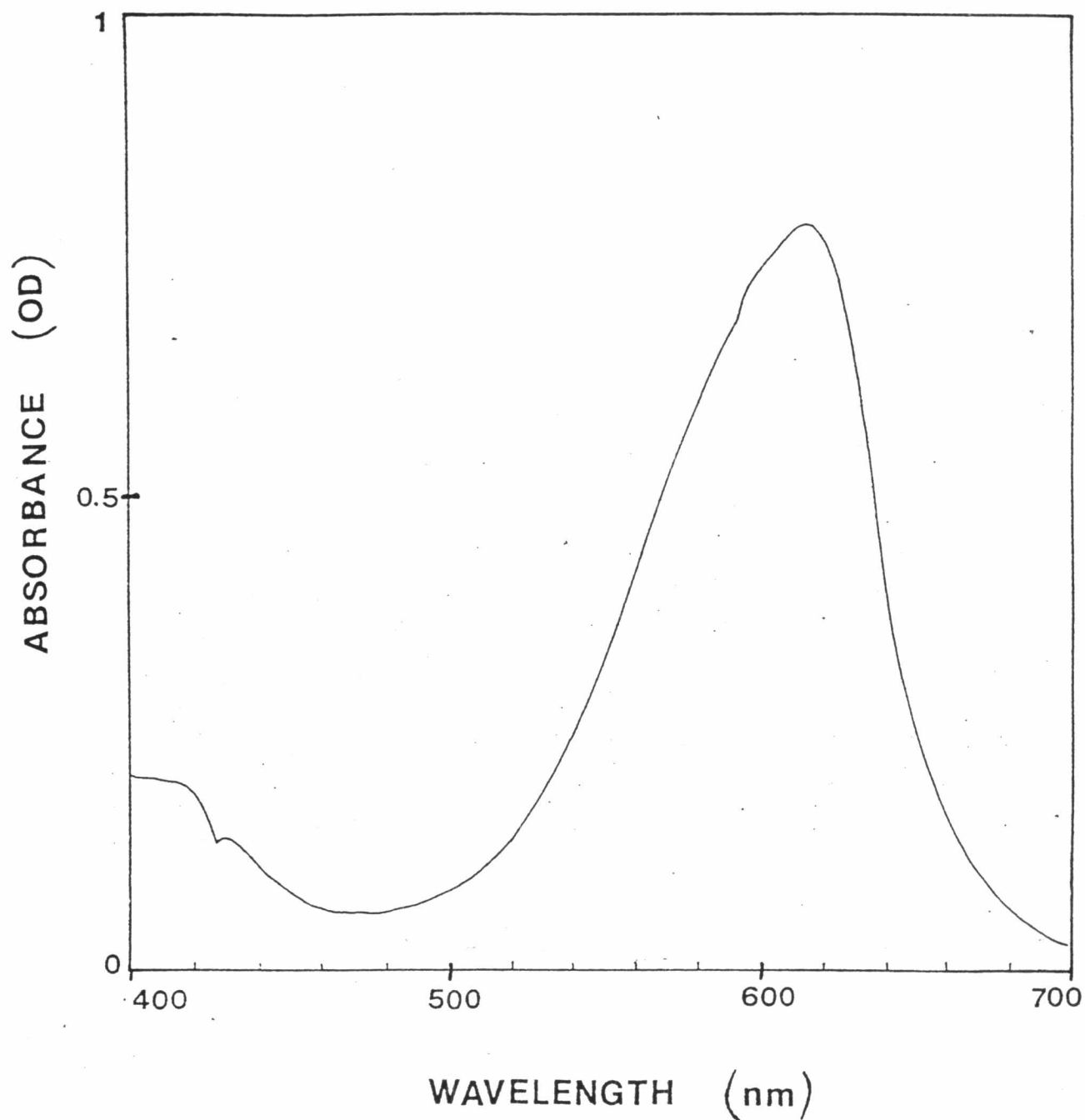


Culture medium of Aphanothece halophytica was prepared by adding all solution of item 2 at indicated volume to 500 ml of Stock Solution A and 500 ml of Stock Solution B. To this mixture 140.8 g NaCl was added and adjusted pH to 7.6 by slowly adding 2 M NaOH then adjusted the final volume to 5 litres with distilled water. The medium was sterilized by autoclaving at 15 lb/in<sup>2</sup> for 15 minutes.

To make Turk Island Salt Solution , 500 ml of Stock Solution A was added to 500 ml of Stock Solution B. To this mixture 140.8 g of NaCl was added and the final volume



APPENDIX 3 : ABSORPTION SPECTRA OF "LINABLUE" IN 0.02 M  
SODIUM PHOSPHATE BUFFER, pH 7.5





## BIOGRAPHY

Miss Jantaporn Thongekaw was born on May 25, 1970 in Chonburi, Thailand. She graduated with the Bachelor of Science Degree in Biochemistry from Faculty of Science, Chulalongkorn University in 1991.