## LIST OF TABLES

Table	Title of Table	Page
2.1	Criteria of an ideal photosensitiser	10
2.2	Molar extinction coefficient ( $\epsilon$ ) of chlorophyll- $a$	14
	and -d in diethyl ether at room temperature	
2.3	Maxima absorbance of metallated and demetallated	15
	chlorophyll derivatives in diethyl ether	
2.4	Regulatory approval of commercial haematoporphyrin	18
	derivative, Photofrin®	
2.5	Classes of seaweeds	31
3.1	Details of the seaweeds collected from Port Dickson	40
3.2	Gradient system of acetonitrile and water for	48
	Reversed-phase HPLC profiling	
4.1	Yields of crude extracts from 14 species of seaweeds	56
	collected from Port Dickson	
4.2	<sup>1</sup> H NMR chemical shift of Tur-12-2 in CDCl <sub>3</sub>	62
4.3	<sup>1</sup> H NMR chemical shift of Tur-12-3 in CDCl <sub>3</sub>	64
4.4	<sup>1</sup> H NMR chemical shift of Tur-19-1 in CDCl <sub>3</sub>	66
4.5	Gradient system of hexane and ethyl acetate for semi-	67
	preparative normal-phase HPLC isolation of methylated	
	Turbinaria conoides extract	
4.6	Comparison of UV-Vis absorbance and $m/z$ values	71
	between Tur-me-2 and purpurin-18 methyl ester	
4.7	<sup>1</sup> H NMR chemical shift of Tur-me-8-2 in CDCl <sub>3</sub>	75
4.8	Gradient system of hexane and ethyl acetate for semi-	76
	preparative normal-phase HPLC isolation of Cladophora	
	patentiramea extract	
4.9	<sup>1</sup> H NMR chemical shift of Cla-me-1 in CDCl <sub>3</sub>	81
4.10	<sup>1</sup> H NMR chemical shifts of Cla-me-4-2 in CDCl <sub>3</sub>	84
4.11	<sup>1</sup> H NMR chemical shifts of Cla-me-4-3 in CDCl <sub>3</sub>	87
4.12	<sup>1</sup> H NMR chemical shifts of Cla-me-4-5-4 in CDCl <sub>3</sub>	89
4.13	Characteristics of other semi pure fractions from the	90
	seaweed extracts	