

Fig. 1: Localisation of seaweeds collecte area (from DSI-CERD)



Fig. 2: Brown seaweeds studied

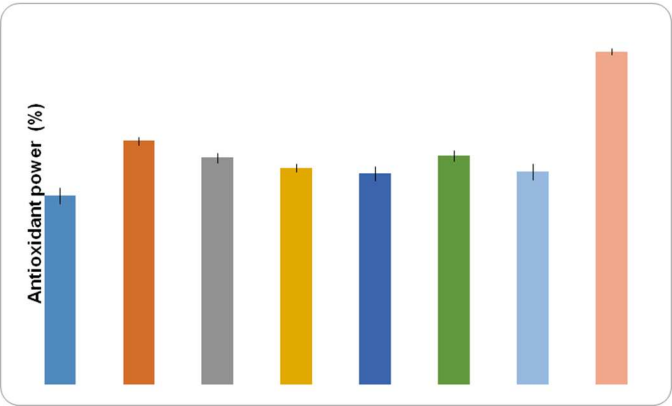


Fig. 3: Antioxydant activity of seaweed extracts by DPPH. (n=3)

Table 1: Rendement and phenolic content of seven seaweed

	Rendement (%)	Phenolic content* (µg PGE/g)
<i>Cystoseira myrica</i>	4,1	73,83±0,1
<i>Padina pavonica</i>	3,8	199,01±0,5
<i>Sargassum fluitans</i>	6,2	90,05±0,1
<i>Sargassum ilicifolium</i>	5,7	72,64±1,1
<i>sargassum sp</i>	6,2	61,42±0,3
<i>Turbinaria triquetra</i>	7	99,50±0,3
<i>Turbinaria turbinata</i>	0,1	49,26±0,3

Note: PGE= PhloroGlucinol Equivalent. * (n=3) and p<0,05.

Table 2: Preliminary phytochemical screening of the samples

Test	<i>C. myrica</i>	<i>P. pavonica</i>	<i>S. fluitans</i>	<i>S. ilicifolium</i>	<i>S. sp</i>	<i>T. triquetra</i>	<i>T. turbinata</i>
alcaloids	-	-	-	-	-	-	-
flavonoids	-	+	+	-	-	+	-
tanins	-	+	+	+	-	+++	-
saponosids	+	+++	++	-	-	++	+
Steroids-terpenes	-	-	-	-	-	+	-

Note: +++(strong),++(middle),+(weak) and-(absent). *Cytoseira myrica*, *Padina pavonica*, *Sargassum fluitans*, *Sargassum ilifolium*, *Sargassum sp*, *Turbinaria triquetra* and *Turbinaria turbinata*.

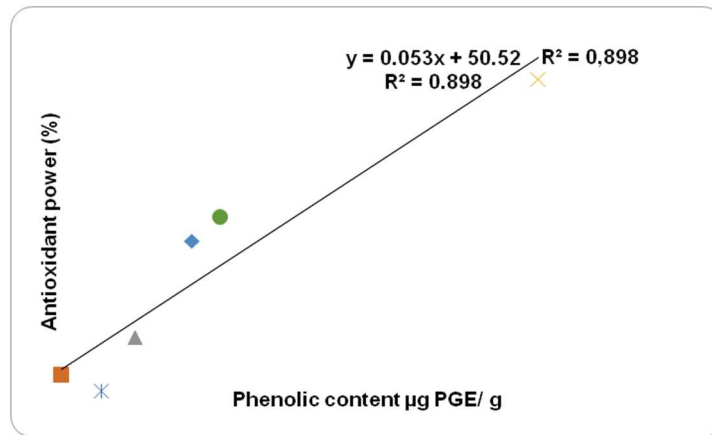


Fig. 4: Linear correlation between antioxidant activity and phenolic contents of the extracts. PGE: PhloroGlucinol equivalent

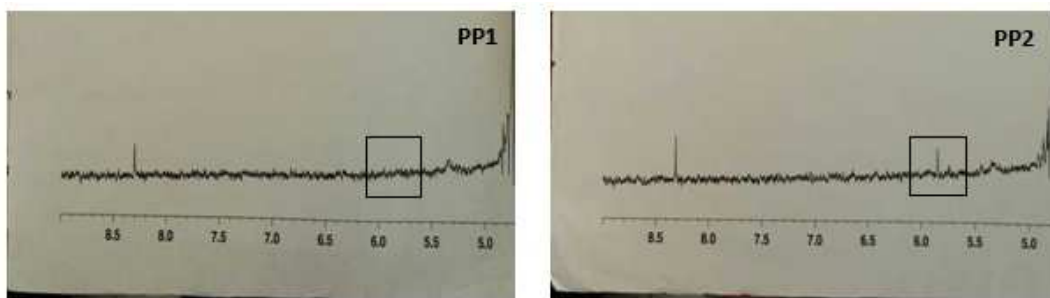


Fig. 5: Comparison of 1H NMR spectra of two *padina pavonica* extracts collected at Ile Moucha island (PP1) and at Khor ambado (PP2)