

Supplementary Materials

Characterization of Antioxidant Activity of Heated Mycosporine-Like Amino Acids from Red Alga Dulse *Palmaria palmata* in Japan

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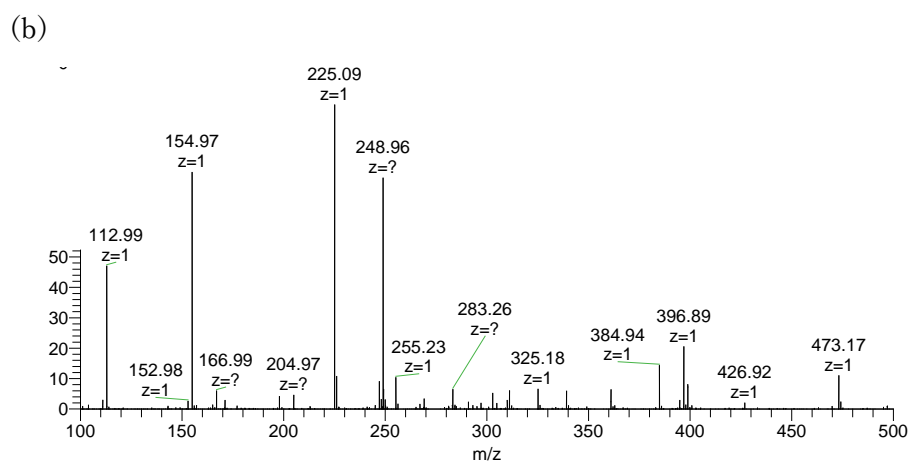
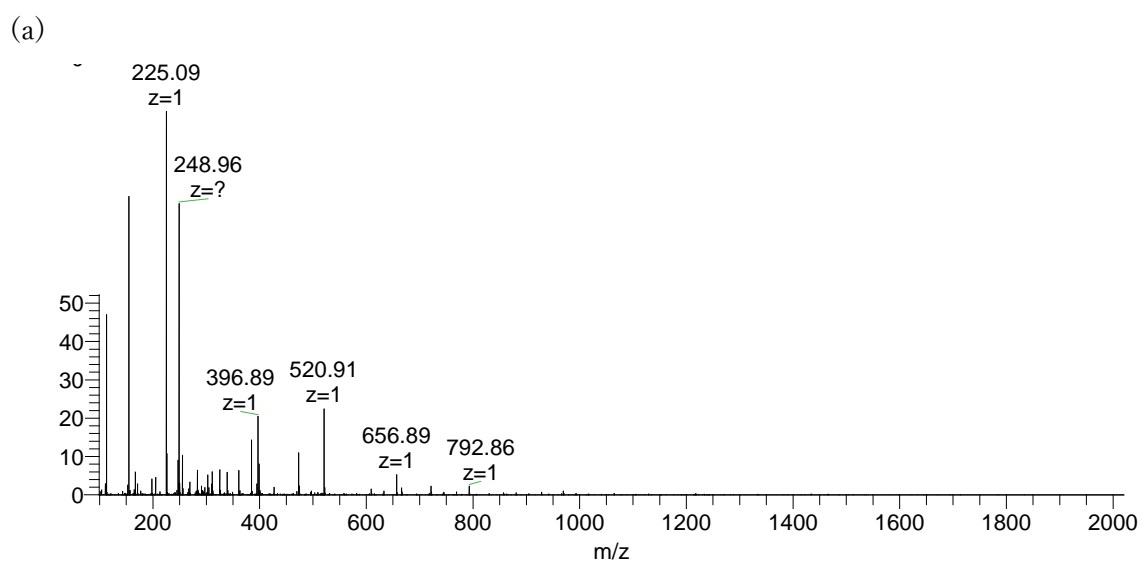
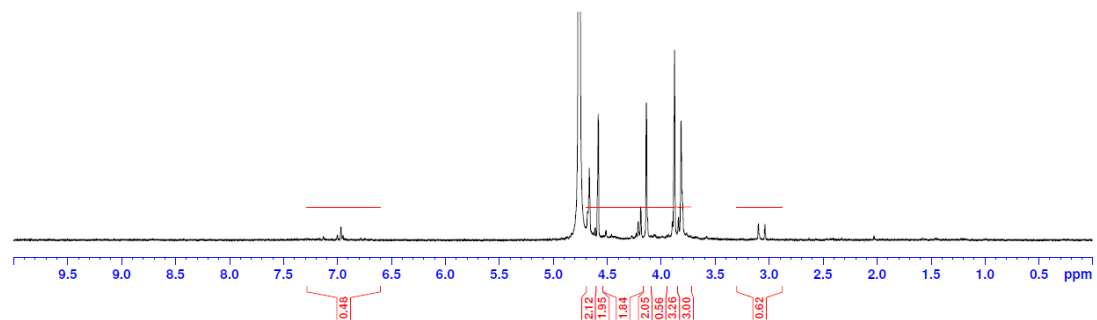


Figure S1. ESI-MS of heated palythine. (a) Whole range of 100-2,000 m/z , (b) zoom up range of 100-500 m/z .

(a)



(b)

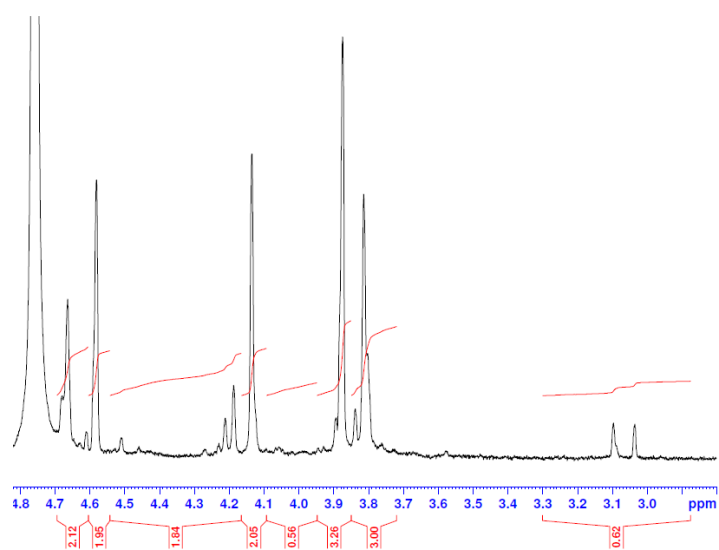
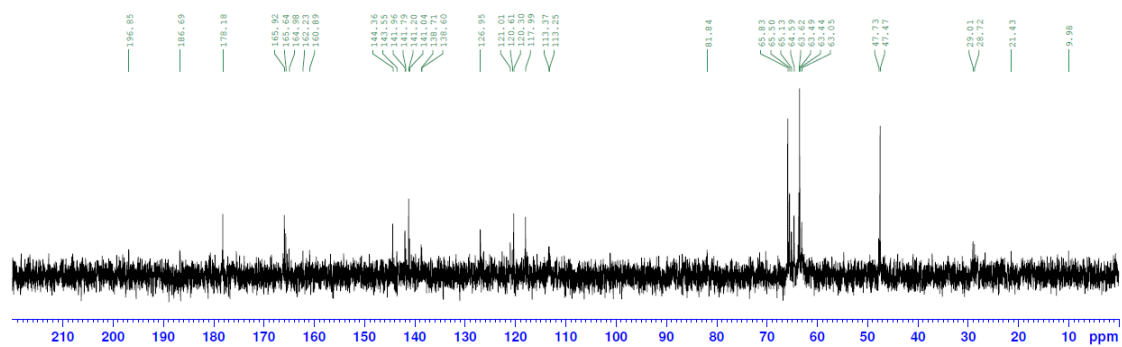
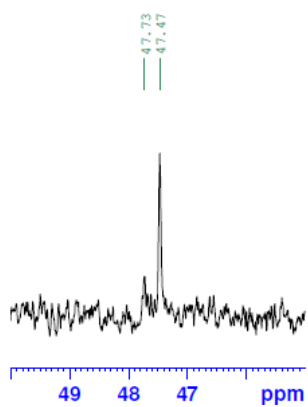


Figure S2. ^1H -NMR of heated palythine. (a) Whole, (b) zoom up.

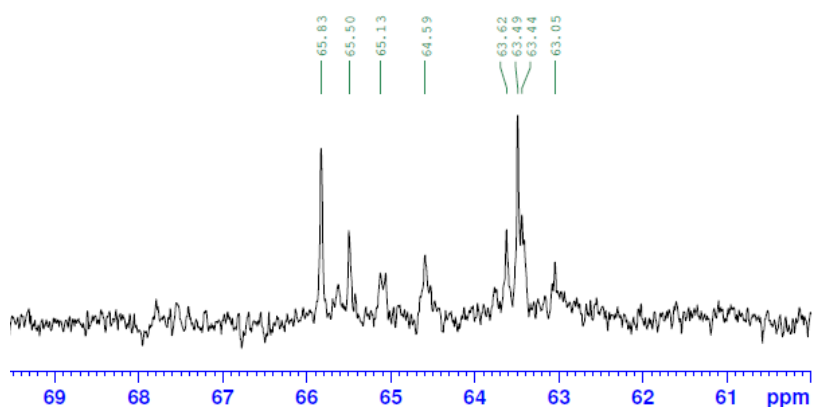
(a)



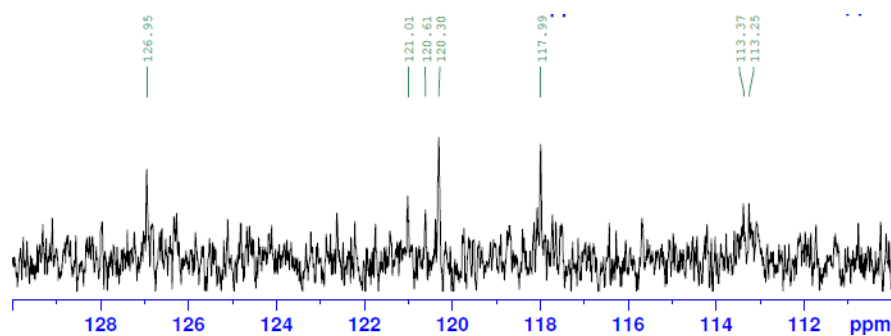
(b)



(c)



(d)



(e)

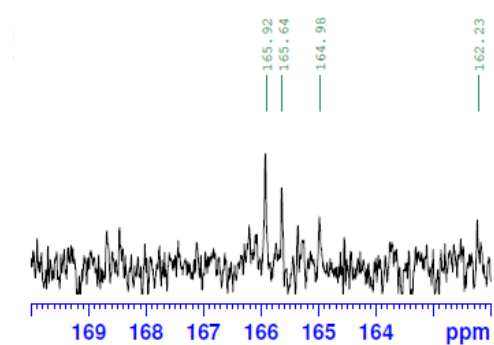


Figure S3. ¹³C-NMR of heated palythine. (a) Whole, (b) zoom up of 47-49 ppm, (c) zoom up of 61-69 ppm, (d) zoom up of 112-128 ppm, (e) zoom up of 164-169 ppm.