

Study on Immunoregulatory Effects of Fucoidan from *Sargassum graminifolium* in vivo and Immunoactivation Activity of Its Fecal Fermentation Products Using Co-Culture Model

Cuifang Wang ^{1,2,*}, Lan Huang ³, Yaolong Huang ¹, Xin, Tian ¹ and Jieqing Liu ^{3,*}

¹ College of Oceanology and Food Science, Quanzhou Normal University, Quanzhou 362000, China; huangyaolong@stumail.qztc.edu.cn (Y.H.); 201005017@stumail.qztc.edu.cn (X.T.)

² Fujian Province Key Laboratory for the Development of Bioactive Material from Marine Algae, Quanzhou Normal University, Quanzhou 362000, China

³ School of Medicine, Huaqiao University, Quanzhou 362021, China; hl287216411@163.com

* Correspondence: wangcuifang@qztc.edu.cn (C.W.); liujieqing@hqu.edu.cn (J.L.)

Monosaccharide composition results of SGF-1 and SGF-2

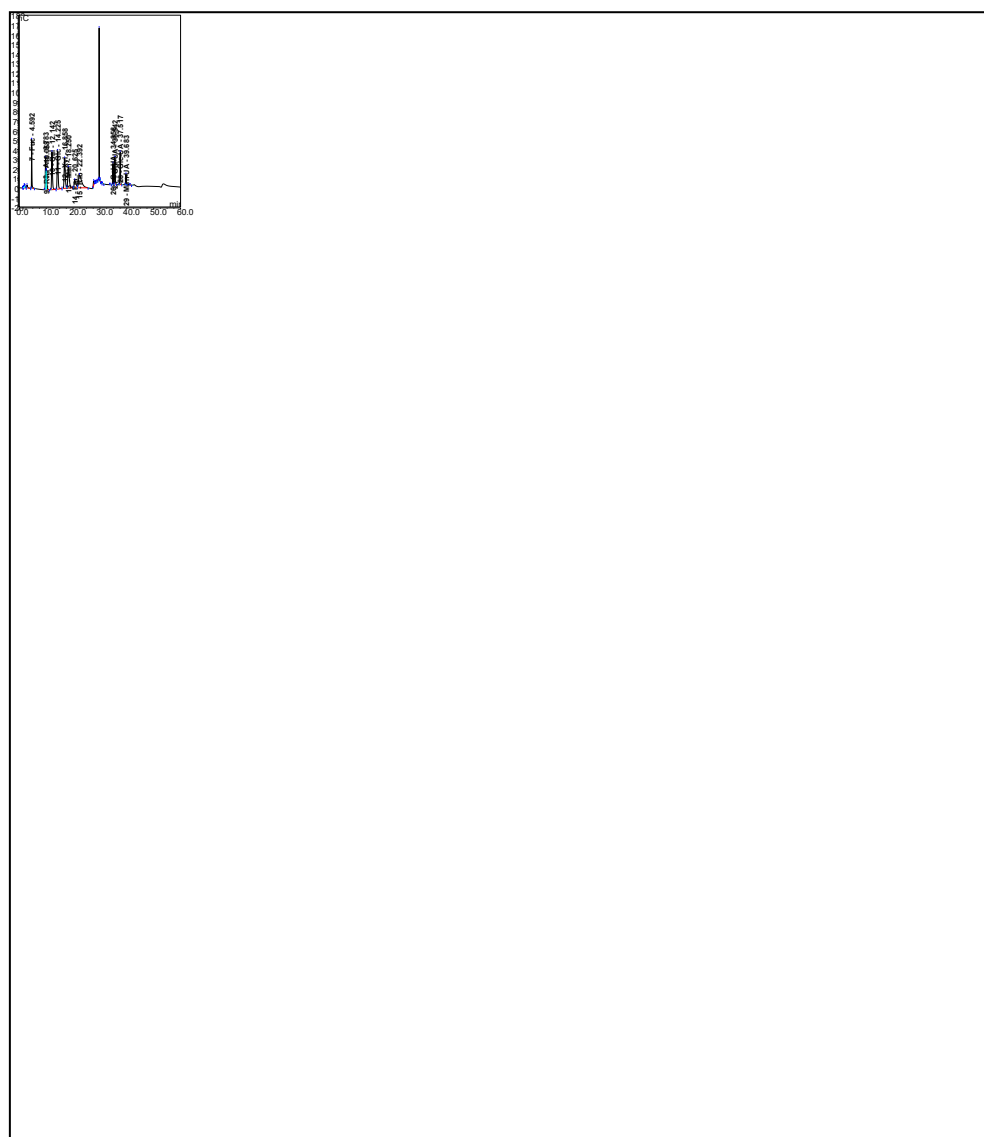


Figure S1. Ion chromatogram of standard sample.

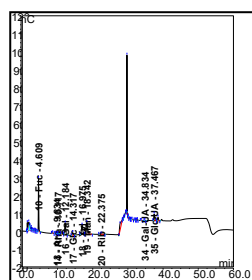


Figure S2. Ion chromatogram of SGF-1.

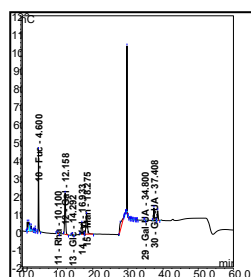


Figure S3. Ion chromatogram of SGF-2.

Molecular weight test results of SGF-1 and SGF-2

Table S1. Molecular weight determination of grade SGPF-1and SGPF-2.

	Mn (kDa)	Mp (kDa)	Mw (kDa)	Mz (kDa)
SGF-1	23.724	250.395	112.96	454.32
SGF-2	138.514	255.486	258.066	606.787

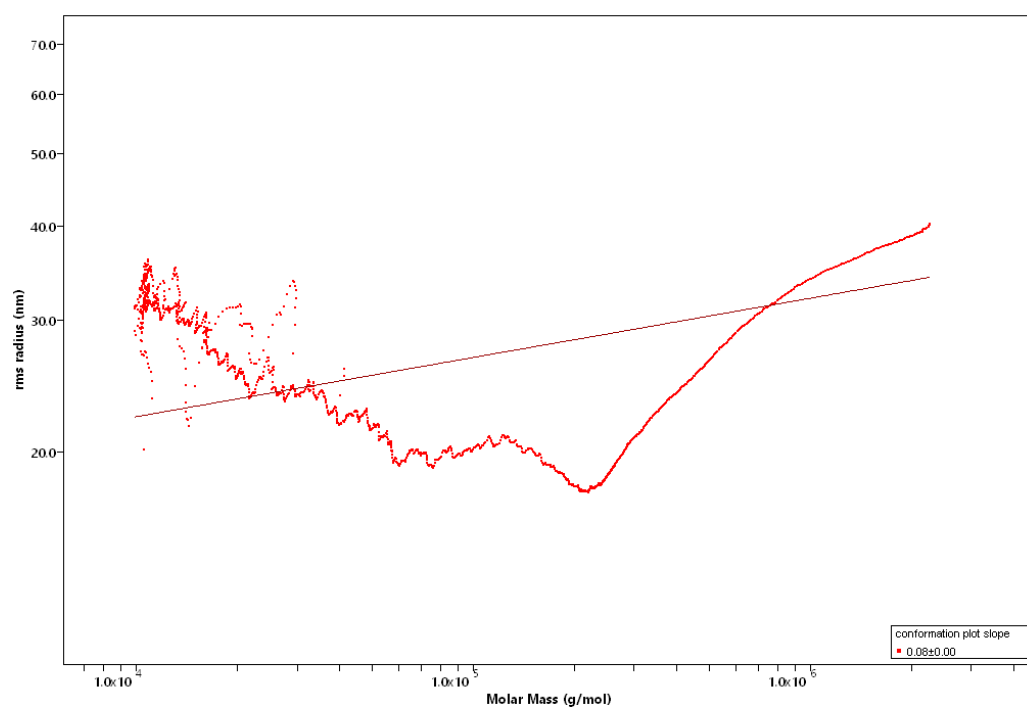


Figure S4. RMS conformation plot of SGF-1.

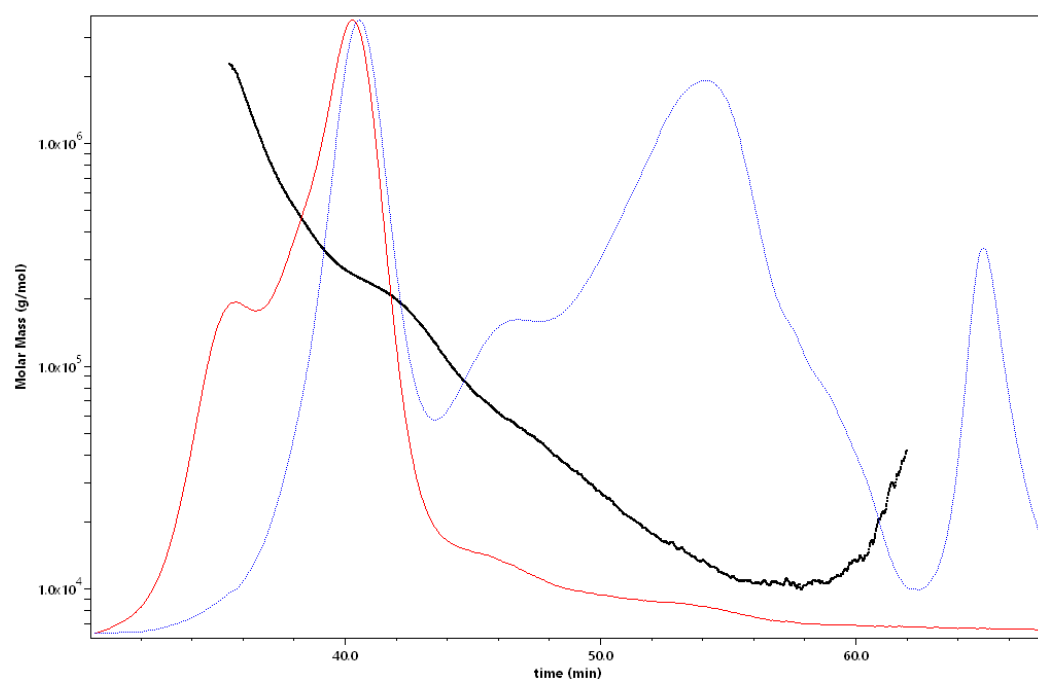


Figure S5. Absolute molecular weight Analysis plot of SGF-1.

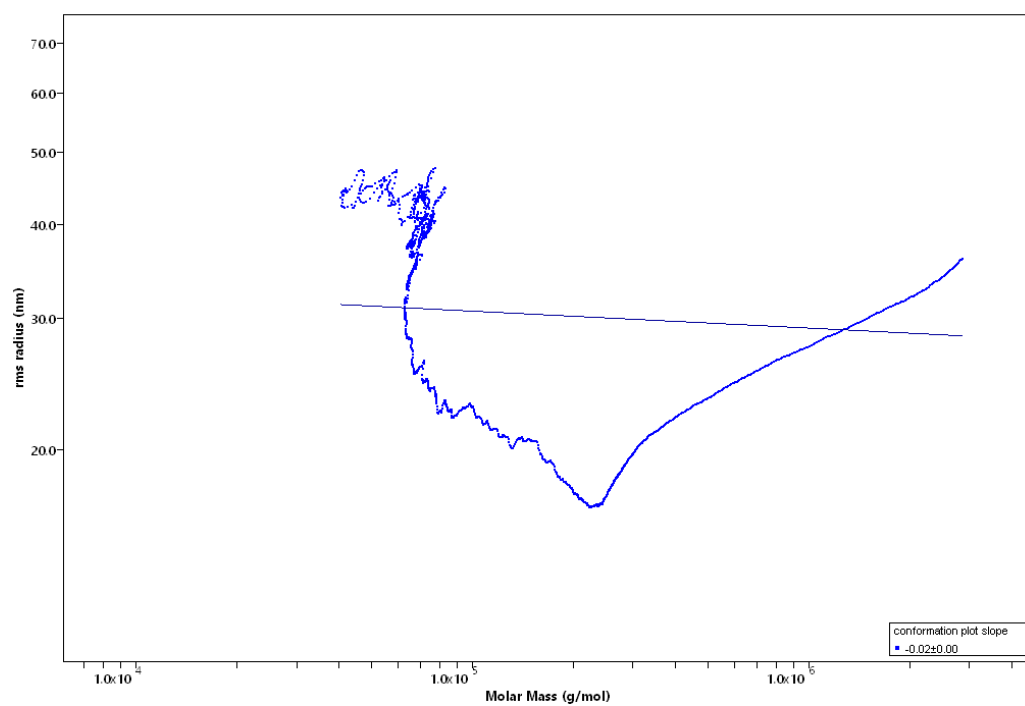


Figure S6. RMS conformation plot of SGF-2.

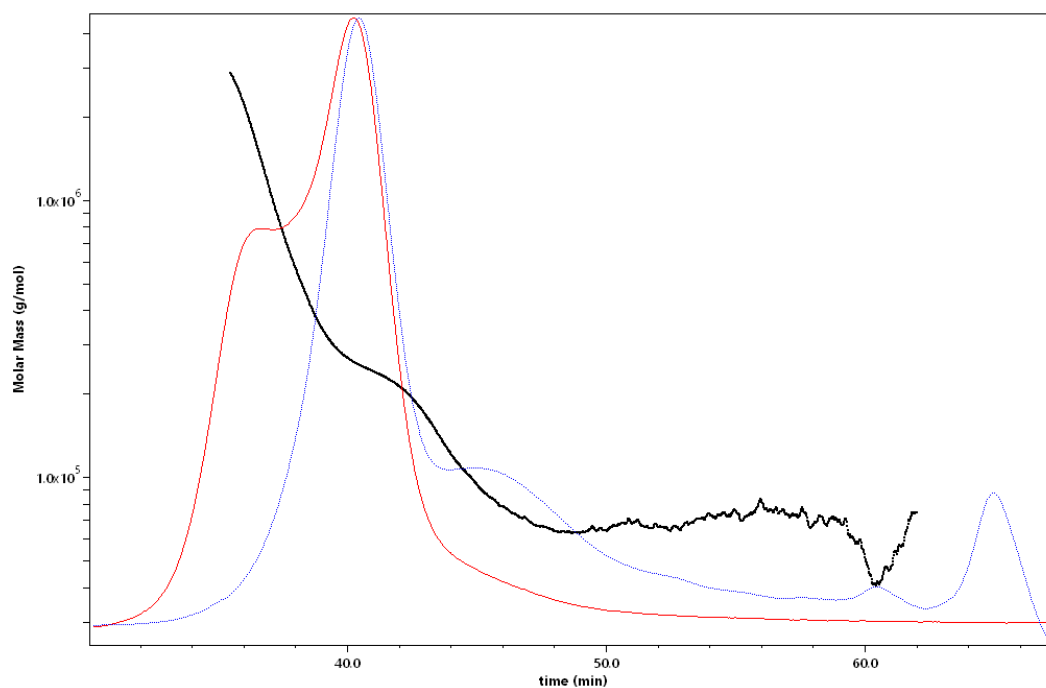


Figure S7. Absolute molecular weight Analysis plot of SGF-2.