

EFFECT OF DESULFATION ON ANTI-HAEMOSTATIC AND ANTI-COMPLEMENT ACTIVITIES OF THE FUCOIDAN FROM *FUCUS VESICULOSUS*

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Fucoidans are sulfated polysaccharide composed by α -L-fucose residues that have some activities such as anticoagulant and anti-inflammatory. We have focused our attention on the effect of fucoidan (F) and desulfated fucoidan (DF) from *Fucus vesiculosus* on the platelet aggregation, coagulation of blood, and complement system. The anticoagulant activity was evaluated by APTT and PT tests. Platelet aggregation was measured by method of Born. The alternative pathway of the complement system was evaluated by assay hemolytic. Hemorrhagic activity was measured using Wistar rats. The effect of fucoidan on platelet aggregation and its hemorrhagic activity was not modified after desulfation of fucoidan. Furthermore, when the effect of the compounds on the complement system was analyzed DF (0,890) showed a decrease in the inhibitory action of F (0.544). In addition, DF showed 87% less potent as anticoagulant compound than F.

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