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Title: Microwave assisted extraction of sulfated polysaccharides (fucoidan) from *Ascophyllum nodosum* and its antioxidant activity

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1 Highlights

- 2 ● Microwave assisted extraction technology was used.
- 3 ● A 3*3 h's conventional extraction was also compared.
- 4 ● *Ascophyllum nodosum* has the potential as natural antioxidants.
- 5 ● Mass balance of the whole extraction process was carried out.

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