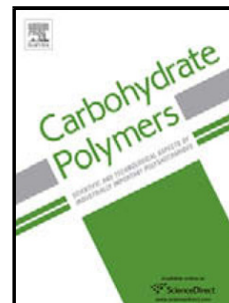


Accepted Manuscript

Title: Gradual Degradation of Fucoidan from *Fucus vesiculosus* and its Effect on Structure, Antioxidant and Antiproliferative Activities

Authors: Eric Lahrsen, Inga Liewert, Susanne Alban



PII: S0144-8617(18)30320-5
DOI: <https://doi.org/10.1016/j.carbpol.2018.03.056>
Reference: CARP 13406

To appear in:

Received date: 1-12-2017
Revised date: 8-3-2018
Accepted date: 17-3-2018

Please cite this article as: Lahrsen, Eric., Liewert, Inga., & Alban, Susanne., Gradual Degradation of Fucoidan from *Fucus vesiculosus* and its Effect on Structure, Antioxidant and Antiproliferative Activities. *Carbohydrate Polymers* <https://doi.org/10.1016/j.carbpol.2018.03.056>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Gradual Degradation of Fucoidan from *Fucus vesiculosus* and its Effect on Structure, Antioxidant and Antiproliferative Activities

Eric Lahrsen^{*,a}, Inga Liewert^b, Susanne Alban^c

*corresponding author

^aPharmaceutical Institute, Kiel University, Gutenbergstraße 76, 24118 Kiel, Germany, elahrsen@pharmazie.uni-kiel.de, Tel: +49-431-880-1426

^bPharmaceutical Institute, Kiel University, Gutenbergstraße 76, 24118 Kiel, Germany, iliewert@pharmazie.uni-kiel.de

^cPharmaceutical Institute, Kiel University, Gutenbergstraße 76, 24118 Kiel, Germany, salban@pharmazie.uni-kiel.de, Tel: +49-431-880-1135

Highlights

- A fucoidan from *Fucus vesiculosus* was degraded with two different methods
- Neither method led to desulfation
- Antioxidant and antiproliferative activities of the fractions were investigated
- Degradation with hydrogen peroxide turned out to be advantageous
- Impurities proved to be responsible for antioxidant and antiproliferative effects

Download English Version:

<https://daneshyari.com/en/article/7782723>

Download Persian Version:

<https://daneshyari.com/article/7782723>

[Daneshyari.com](https://daneshyari.com)