Accepted Manuscript

Title: Supercritical CO₂ extraction of bilberry (*Vaccinium myrtillus* L.) seed oil: fatty acid composition and antioxidant activity

Authors: Graziele Gustinelli, Lovisa Eliasson, Cecilia Svelander, Marie Alminger, Lilia Ahrné

PII: \$0896-8446(17)30814-8

DOI: https://doi.org/10.1016/j.supflu.2018.01.002

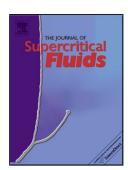
Reference: SUPFLU 4167

To appear in: J. of Supercritical Fluids

Received date: 8-11-2017 Revised date: 30-12-2017 Accepted date: 2-1-2018

Please cite this article as: Graziele Gustinelli, Lovisa Eliasson, Cecilia Svelander, Marie Alminger, Lilia Ahrné, Supercritical CO2 extraction of bilberry (Vaccinium myrtillus L.) seed oil: fatty acid composition and antioxidant activity, The Journal of Supercritical Fluids https://doi.org/10.1016/j.supflu.2018.01.002

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.



Supercritical CO₂ extraction of bilberry (*Vaccinium myrtillus* L.) seed oil: fatty acid composition and antioxidant activity

<u>Graziele Gustinelli</u>^{ab}, Lovisa Eliasson^a, Cecilia Svelander^b, Marie Alminger^b and Lilia Ahrné^{abc}

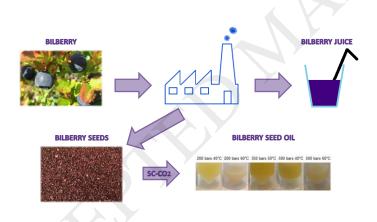
^aRISE Research Institutes of Sweden, Frans Perssons väg 6, 402 29 Gothenburg, Sweden

^bDepartment of Biology and Biological Engineering, Food and Nutrition Science, Chalmers University of Technology, Kemivägen 10, 412 96 Gothenburg, Sweden

^cCurrent affiliation: Dept. of Food Science, Ingredient and Dairy Technology, University of Copenhagen, Rolighedsvej 26, 1958 Copenhagen, Denmark

graziele.gustinelli@ri.se

Graphical abstract



Highlights

- SFE of bilberry seed oils was applied using different pressures and temperatures.
- Bilberry seed oils extracted by SC-CO₂ were rich in poly unsaturated fatty acids.
- The oil extracted at 20 MPa and 60°C had the best recovery of vitamin E.

Download English Version:

https://daneshyari.com/en/article/6670376

Download Persian Version:

https://daneshyari.com/article/6670376

Daneshyari.com