

Author's Accepted Manuscript

Drastic Energy Consumption Reduction and Ecoefficiency Improvement of Cranberry Juice Deacidification by Electrodialysis with Bipolar Membranes at Semi-industrial Scale: Reuse of the Recovery Solution

Mélanie Faucher, Élodie Serre, Marie-Ève Langevin, Sergey Mikhaylin, Florence Lutin, Laurent Bazinet



PII: S0376-7388(18)30242-4
DOI: <https://doi.org/10.1016/j.memsci.2018.02.041>
Reference: MEMSCI15966

To appear in: *Journal of Membrane Science*

Received date: 26 January 2018
Revised date: 15 February 2018
Accepted date: 16 February 2018

Cite this article as: Mélanie Faucher, Élodie Serre, Marie-Ève Langevin, Sergey Mikhaylin, Florence Lutin and Laurent Bazinet, Drastic Energy Consumption Reduction and Ecoefficiency Improvement of Cranberry Juice Deacidification by Electrodialysis with Bipolar Membranes at Semi-industrial Scale: Reuse of the Recovery Solution, *Journal of Membrane Science*, <https://doi.org/10.1016/j.memsci.2018.02.041>

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 galley proof before it is published in its final citable 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.

Drastic Energy Consumption Reduction and Ecoefficiency Improvement of Cranberry Juice Deacidification by Electrodialysis with Bipolar Membranes at Semi-industrial Scale: Reuse of the Recovery Solution

Mélanie Faucher^{a,b}, Élodie Serre^{a,b}, Marie-Ève Langevin^c, Sergey Mikhaylin^a,

Florence Lutin^c and Laurent Bazinet^{a,b*}

^a Institute of Nutrition and Functional Food (INAF) and Department of Food Sciences, Pavillon Paul-Comtois, Université Laval, Quebec, Qc G1V 0A6, Canada

^b Laboratoire de Transformation Alimentaire et Procédés Électro-membranaires (LTAPEM, Laboratory of Food Processing and Electro-Membrane Processes), Pavillon Paul Comtois, Université Laval, Quebec, Qc G1V 0A6, Canada

^c Eurodia/Ameridia Center, 84120 Pertuis, France

Mélanie Faucher : melanie.faucher.2@ulaval.ca

Élodie Serre : elodie.serre.1@ulaval.ca

Marie-Ève Langevin : MELangevin@ameridia.ca

Sergey Mikhaylin : Sergey.Mikaylin@fsaa.ulaval.ca

Florence Lutin : florence.lutin@eurodia.com

Laurent Bazinet : Laurent.Bazinet@fsaa.ulaval.ca

*to whom correspondence should be addressed

Phone: (418) 656-2131 ext 7445; Fax: (418) 656-3353

E-mail: Laurent.Bazinet@fsaa.ulaval.ca

Website: <http://www.laurentbazinet.fsaa.ulaval.ca/>

Download English Version:

<https://daneshyari.com/en/article/7019904>

Download Persian Version:

<https://daneshyari.com/article/7019904>

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