Accepted Manuscript

Title: *Bacillus amyloliquefaciens* levansucrase-Catalyzed the Synthesis of fructooligosaccharides, Oligolevan and Levan in Maple Syrup-Based Reaction Systems

Author: Mengxi Li Sooyoun Seo Salwa Karboune

PII: S0144-8617(15)00639-6

DOI: http://dx.doi.org/doi:10.1016/j.carbpol.2015.07.010

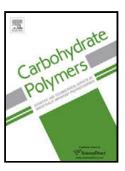
Reference: CARP 10112

To appear in:

Received date: 5-4-2015 Revised date: 5-7-2015 Accepted date: 7-7-2015

Please cite this article as: Li, M., Seo, S., and Karboune, S., *Bacillus amyloliquefaciens* levansucrase-Catalyzed the Synthesis of fructooligosaccharides, Oligolevan and Levan in Maple Syrup-Based Reaction Systems, *Carbohydrate Polymers* (2015), http://dx.doi.org/10.1016/j.carbpol.2015.07.010

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.



ACCEPTED MANUSCRIPT

Highlights

- Maple syrups as reaction media and a sucrose source for levansucrase.
- In maple syrup 30°Bx, oligolevans (10<DP\le 30) were the major products (>80%).
- In maple syrup 66°Bx, levans (DP≥30) were most abundant at 8°C.
- Broad acceptor specificity of levansucrase in maple syrups enriched with disaccharides.
- Lactose was the preferred fructosyl acceptor, leading to the formation of lactose-fructose.

Download English Version:

https://daneshyari.com/en/article/7787465

Download Persian Version:

https://daneshyari.com/article/7787465

<u>Daneshyari.com</u>