

# Accepted Manuscript

Effect of amorphization method on the physicochemical properties of amorphous sucrose

Elizabeth A. Morrow, Maxwell W. Terban, Leonard C. Thomas, Danielle L. Gray, Michael J. Bowman, Simon J.L. Billinge, Shelly J. Schmidt



PII: S0260-8774(18)30379-0

DOI: [10.1016/j.jfoodeng.2018.08.036](https://doi.org/10.1016/j.jfoodeng.2018.08.036)

Reference: JFOE 9386

To appear in: *Journal of Food Engineering*

Received Date: 13 June 2018

Revised Date: 27 August 2018

Accepted Date: 30 August 2018

Please cite this article as: Morrow, E.A., Terban, M.W., Thomas, L.C., Gray, D.L., Bowman, M.J., Billinge, S.J.L., Schmidt, S.J., Effect of amorphization method on the physicochemical properties of amorphous sucrose, *Journal of Food Engineering* (2018), doi: 10.1016/j.jfoodeng.2018.08.036.

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.

**Effect of amorphization method on the physicochemical properties of amorphous sucrose**

Elizabeth A. Morrow<sup>a</sup>, Maxwell W. Terban<sup>b,1</sup>, Leonard C. Thomas<sup>c</sup>, Danielle L. Gray<sup>d</sup>, Michael J. Bowman<sup>e</sup>, Simon J. L. Billinge<sup>b,f</sup>, Shelly J. Schmidt<sup>g</sup>

**Family names:** Morrow, Terban, Thomas, Gray, Bowman, Billinge, and Schmidt

**Given names:** Elizabeth A., Maxwell W., Leonard C., Danielle L., Michael J., Simon J. L. and Shelly J.

<sup>a</sup>University of Illinois at Urbana-Champaign

399B Bevier Hall

905 S Goodwin Avenue

Urbana, IL 61801, U.S.A.

emorrow2@illinois.edu

<sup>b</sup>Columbia University

Department of Applied Physics and Applied Mathematics

New York, New York 10027, U.S.A.

mwt2115@columbia.edu

<sup>c</sup>DSC Solutions

27 E Braeburn Drive

Smyrna, DE 19977, U.S.A.

LThomas@tainstruments.com

<sup>d</sup>The George L. Clark X-Ray Facility, School of Chemical Sciences

University of Illinois at Urbana-Champaign

70 Noyes Lab

505 S Mathews Ave

Urbana, IL 61801, U.S.A.

dgray@illinois.edu

<sup>e</sup>Bioenergy Research Units

National Center for Agricultural Utilization Research

Agricultural Research Service, United States Department of Agriculture

Peoria, IL 61604, U.S.A.

Michael.Bowman@ARS.USDA.GOV

<sup>f</sup>Condensed Matter Physics and Materials Science Department

Brookhaven National Laboratory

Upton, NY 11973, U.S.A.

sb2896@columbia.edu

---

<sup>1</sup> Present address: Max Planck Institute for Solid State Research, Heisenbergstrasse 1, 70569 Stuttgart, Germany

Download English Version:

<https://daneshyari.com/en/article/11030204>

Download Persian Version:

<https://daneshyari.com/article/11030204>

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