## **Accepted Manuscript**

Influence of ultrasound and vacuum assisted drying on papaya quality parameters

Edvaldo Vieira da Silva Júnior, Lívia Lins de Melo, Rafael Augusto Batista de Medeiros, Zilmar Meireles Pimenta Barros, Patrícia Moreira Azoubel

PII: S0023-6438(18)30600-5

DOI: 10.1016/j.lwt.2018.07.017

Reference: YFSTL 7260

To appear in: LWT - Food Science and Technology

Received Date: 15 March 2018

Revised Date: 8 July 2018

Accepted Date: 10 July 2018

Please cite this article as: Vieira da Silva Júnior, E., Lins de Melo, Lí., Batista de Medeiros, R.A., Pimenta Barros, Z.M., Azoubel, Patrí.Moreira., Influence of ultrasound and vacuum assisted drying on papaya quality parameters. *LWT - Food Science and Technology* (2018), doi: 10.1016/j.lwt.2018.07.017.

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

1	Influence of ultrasound and vacuum assisted drying on papaya quality parameters
2	Edvaldo Vieira da Silva Júnior <sup>a</sup> , Lívia Lins de Melo <sup>b</sup> , Rafael Augusto Batista de
3	Medeiros <sup>a</sup> , Zilmar Meireles Pimenta Barros <sup>c</sup> , Patrícia Moreira Azoubel <sup>b</sup> ,*
4	<sup>a</sup> Universidade Federal de Pernambuco, Departamento de Nutrição, Av. Moraes Rego,
5	s/n, Cidade Universitária, Recife, PE, 50670-901, Brazil.
6	<sup>b</sup> Universidade Federal de Pernambuco, Departamento de Engenharia Química, Av. Prof.
7	Arthur de Sá, s/n, Cidade Universitária, Recife-PE, 50740-521, Brazil.
8	<sup>c</sup> Universidade Federal de Pernambuco, Departamento de Antibióticos, Av. Prof. Arthur
9	de Sá, s/n, Cidade Universitária, Recife-PE, 50740-525, Brazil.
10	
11	ABSTRACT. The aim of this study was to evaluate the combination of ultrasound
	ABSTRACT. The aim of this study was to evaluate the combination of ultrasound and vacuum on papaya drying kinetics and some quality parameters. Drying was
11 12 13	
12	and vacuum on papaya drying kinetics and some quality parameters. Drying was
12 13	and vacuum on papaya drying kinetics and some quality parameters. Drying was performed at 60 °C and four techniques were used: ultrasound and vacuum assisted
12 13 14	and vacuum on papaya drying kinetics and some quality parameters. Drying was performed at 60 °C and four techniques were used: ultrasound and vacuum assisted drying (USVD), vacuum drying (VD), ultrasound assisted drying (USD) and control
12 13 14 15	and vacuum on papaya drying kinetics and some quality parameters. Drying was performed at 60 °C and four techniques were used: ultrasound and vacuum assisted drying (USVD), vacuum drying (VD), ultrasound assisted drying (USD) and control (without ultrasound and vacuum) drying (CD). Fresh and dried samples were evaluated
12 13 14 15	and vacuum on papaya drying kinetics and some quality parameters. Drying was performed at 60 °C and four techniques were used: ultrasound and vacuum assisted drying (USVD), vacuum drying (VD), ultrasound assisted drying (USD) and control (without ultrasound and vacuum) drying (CD). Fresh and dried samples were evaluated in terms of color, texture, total carotenoid and ascorbic acid contents. USVD papaya had
112 113 114 115 116	and vacuum on papaya drying kinetics and some quality parameters. Drying was performed at 60 °C and four techniques were used: ultrasound and vacuum assisted drying (USVD), vacuum drying (VD), ultrasound assisted drying (USD) and control (without ultrasound and vacuum) drying (CD). Fresh and dried samples were evaluated in terms of color, texture, total carotenoid and ascorbic acid contents. USVD papaya had lower processing time, requiring 270 minutes to reach the dynamic equilibrium

## Download English Version:

## https://daneshyari.com/en/article/8890145

Download Persian Version:

https://daneshyari.com/article/8890145

<u>Daneshyari.com</u>