

# Accepted Manuscript

Sporeforming bacteria in beer: occurrence, diversity, presence of hop resistance genes and fate in alcohol-free and lager beers



Allan R.G. Munford, Verônica O. Alvarenga, Leonardo do Prado-Silva, Aline Crucello, Fernanda B. Campagnollo, Rafael D. Chaves, Juan M. Oteiza, Anderson S. Sant'Ana

PII: S0956-7135(17)30302-X  
DOI: 10.1016/j.foodcont.2017.06.003  
Reference: JFCO 5656  
To appear in: *Food Control*  
Received Date: 01 May 2017  
Revised Date: 01 June 2017  
Accepted Date: 02 June 2017

Please cite this article as: Allan R.G. Munford, Verônica O. Alvarenga, Leonardo do Prado-Silva, Aline Crucello, Fernanda B. Campagnollo, Rafael D. Chaves, Juan M. Oteiza, Anderson S. Sant'Ana, Sporeforming bacteria in beer: occurrence, diversity, presence of hop resistance genes and fate in alcohol-free and lager beers, *Food Control* (2017), doi: 10.1016/j.foodcont.2017.06.003

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.

1 **Sporeforming bacteria in beer: occurrence, diversity, presence of**  
2 **hop resistance genes and fate in alcohol-free and lager beers**

3

4 Allan R. G. Munford<sup>1#</sup>, Verônica O. Alvarenga<sup>1#</sup>, Leonardo do Prado-Silva<sup>1</sup>, Aline  
5 Crucello<sup>1</sup>, Fernanda B. Campagnollo<sup>1</sup>, Rafael D. Chaves<sup>1</sup>, Juan M. Oteiza<sup>2</sup>,  
6 Anderson S. Sant'Ana<sup>1\*</sup>

7

8 <sup>1</sup>Department of Food Science, University of Campinas, Campinas, SP, Brazil.

9 <sup>2</sup>Centro de Investigación y Asistencia Técnica a la Industria (CIATI AC). Neuquén,  
10 Argentina.

11

12

13

14

15

16

17 **Short title:** Sporeforming bacteria in beer.

18

19

20

21 #These authors contributed equally to this study.

22

23

24 \*Corresponding author: Prof. Dr. Anderson S. Sant'Ana, E-mail: [and@unicamp.br](mailto:and@unicamp.br)

25 Mailing address: Rua Monteiro Lobato, 80, 13083-862 Campinas, São Paulo, Brazil.

Download English Version:

<https://daneshyari.com/en/article/5767188>

Download Persian Version:

<https://daneshyari.com/article/5767188>

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