Accepted Manuscript

Effects of lactic acid bacteria and molasses additives on the microbial community and fermentation quality of soybean silage

Kuikui Ni, Fangfang Wang, Baoge Zhu, Junxiang Yang, Guoan Zhou, Yi Pan, Jin Zhong

PII:	S0960-8524(17)30545-X
DOI:	http://dx.doi.org/10.1016/j.biortech.2017.04.055
Reference:	BITE 17950
To appear in:	Bioresource Technology
Received Date:	23 February 2017
Revised Date:	13 April 2017
Accepted Date:	15 April 2017



Please cite this article as: Ni, K., Wang, F., Zhu, B., Yang, J., Zhou, G., Pan, Y., Zhong, J., Effects of lactic acid bacteria and molasses additives on the microbial community and fermentation quality of soybean silage, *Bioresource Technology* (2017), doi: http://dx.doi.org/10.1016/j.biortech.2017.04.055

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

Effects of lactic acid bacteria and molasses additives on the microbial

community and fermentation quality of soybean silage

Kuikui Ni^a, Fangfang Wang^{a,c}, Baoge Zhu^b, Junxiang Yang^d, Guoan Zhou^b, Yi Pan^b, Jin Zhong^{a,c}*

- ^a State Key Laboratory of Microbial Resources, Institute of Microbiology, Chinese Academy of Sciences, Beijing 100101, China
- ^b State Key Laboratory of Plant Cell and Chromosome Engineering, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing 100101, China
- ^c School of Life Science, University of Chinese Academy of Sciences, Beijing 100039, China
- ^d National Animal Husbandry Station, Beijing 100022, China
- *Corresponding author.
- E-mail address: zhongj@im.ac.cn (J. Zhong).

HIGHLIGHTS

- Soybean ensiled with lactic acid bacteria inoculant and molasses.
- All additives improved fermentation quality of soybean silage.
- Combined addition of lactic acid bacteria and molasses showed best silage quality.
- Molasses enriched the abundance of *Lactobacillus*.
- Combination of lactic acid bacteria and molasses decreased *Clostridia* abundance.

Download English Version:

https://daneshyari.com/en/article/4997267

Download Persian Version:

https://daneshyari.com/article/4997267

Daneshyari.com