

论文 添加剂Siloguard 对全株玉米青贮饲料品质及有氧稳定性的影响

郭艳萍¹, | 邓波¹, 娜日苏² | 玉柱¹, 顾雪莹¹, 朝克图³

1. 中国农业大学草地研究所, 北京 100193; 2. 内蒙古农业大学生态环境学院, 呼和浩特010019; 3. 呼伦贝尔市草原科学研究所, 呼伦贝尔 021008

摘要:

以全株玉米为原料, 分别添加0.05%、0.10% Siloguard, 研究其对全株玉米青贮饲料品质的影响, 并对有氧暴露0, 1, 3, 5, 7 d的全株玉米青贮饲料的有氧稳定性进行分析与测定。结果表明: 与对照相比, 添加Siloguard 对青贮饲料pH值无显著影响, 显著降低中性洗涤纤维和氨态氮含量($P < 0.05$); 与添加0.05% Siloguard相比, 添加0.10% Siloguard显著提高青贮饲料的粗蛋白含量($P < 0.05$)。全株玉米青贮饲料有氧暴露7 d时青贮饲料pH值升高, 乳酸、乙酸和丙酸含量下降。

关键词: 全株玉米青贮饲料 Siloguard 青贮品质 有氧稳定性

Effects of Siloguard Additives on Quality and Aerobic Stability of Corn Silage

GUO Yan-ping¹, DENG Bo¹, | NA Ri-su² | YU Zhu¹, GU Xue-ying¹, CHAO Ke-tu³

1. Institute of Grassland Science, China Agricultural University, Beijing 100193, China | 2. College of Ecological Environment, Inner Mongolia Agricultural University, Hohhot 010019, China; 3. Hulunbuir Institute of Grassland Science, Hulunbuir 021008, China

Abstract:

Whole crop corn was ensiled with adding 0.05% and 0.10% Siloguard (a commercial additive contains sodium sulfate, potassium sulfate, diastatic malt, glucose and propylene glycol) respectively to examine the influence of the additive on quality of the corn silage. In addition, this experiment was carried out to evaluate the aerobic stability of the corn silages which were exposed to air and sampled on 0, 1, 3, 5, 7 days of exposure. The results showed that siloguard had no significant effect on pH value and significantly decreased the NDF content($P < 0.05$); and 0.10% siloguard significantly increased the CP content($P < 0.05$) in the ensiled forage compared to that in the 0.05% siloguard treated silage. After 7 days of exposure to air, the pH value rose, while the lactic acid, acetic acid and propionic acid decreased.

Keywords: corn silage siloguard silage quality aerobic stability

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通讯作者:

作者简介: 郭艳萍 | 女 | 硕士研究生 | 研究方向: 饲草加工贮藏与利用。

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