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## 后生物生产层

### 高加索三叶草青贮饲料的制作及质量变化

魏春秋, 王明玖

#### 摘要:

将处于果后营养期的高加索三叶草 *Trifolium ambiguum* 分别做切短为2、5 cm长和未切短处理, 同时进行添加和未添加微生物发酵剂对比试验, 共设6个处理, 每个处理3次重复。将青贮原料装袋, 填满, 压实, 密封。贮藏45 d后, 进行感官评定和营养成分测定。经感官评定, 添加发酵剂且切短为2 cm处理效果最好, 此时表现为醇香味浓, 色黄绿, 叶片结构完整良好, 霉烂程度低。营养成分分析表明, 添加发酵剂且切短为2 cm的粗蛋白(CP)含量达20.25%, 中性洗涤纤维(NDF)和酸性洗涤纤维(ADF)含量比未添加发酵剂且切短为2 cm青贮料中的低。总体来说, 高加索三叶草单一高水分青贮效果良好, 但添加微生物发酵剂后的品质优于未添加的处理。

关键词: 高加索三叶草; 高水分青贮; 营养成分; 微生物发酵剂

### The silage making and nutritive variation of *Trifolium ambiguum*

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#### Abstract:

*Trifolium ambiguum* was used as raw material at nutrition period after maturity. Six treatments were composed of 2 cm, 5 cm cutting, whole plant, with and without microorganism starter, with three replicates. These silage materials were bagged, crammed, sealed and ensilaged. The sensory evaluation and determination of nutritional components were carried out after 45 days. The treatment with 2 cm cutting and microorganism starter was better by sensory evaluation, at this time the alcohol flavor was strong, the color was yellow green, the leaves structure was good and the level of rotten was low. Based on nutritional components determination of *T. ambiguum*, crude protein content of the treatment with 2 cm cutting and microorganism starter was 20.25%, NDF and ADF were lower than the treatment of 2 cm cutting without microorganism starter. In a word, high moisture *T. ambiguum* silage had excellent effect, and silage quality of adding microorganism starter was better than direct silage. The objective of this study was to discuss the effects of silage methods on silage quality of *T. ambiguum* and to provide theoretical basis for efficient utilization of the grass.

Keywords: *Trifolium ambiguum* high moisture silage nutritional components microorganism starter

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