

拉伸膜裹包苜蓿青贮饲料体外消化率的研究

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摘要:

为探讨长期贮藏拉伸膜裹包苜蓿Medicago sativa青贮饲料养分的体外消化率, 采用两步法测定体外干物质消化率 (IVDMD) 和体外粗蛋白消化率 (IVCPD), 采用一步法测定体外中性洗涤纤维消化率 (IVNDFD) 和体外酸性洗涤纤维消化率 (IVADFD)。结果表明, 除IVCPD外, 鲜割苜蓿拉伸膜裹包青贮饲料的IVDMD、IVNDFD、IVADFD低于苜蓿原料; 绿汁发酵液和甲酸处理拉伸膜裹包苜蓿青贮饲料的IVDMD、IVCPD、IVNDFD、IVADFD没有差异; 晾晒处理拉伸膜裹包苜蓿青贮饲料的养分消化率低于苜蓿原料; 晾晒处理拉伸膜裹包苜蓿青贮饲料的IVDMD和IVCPD显著低于鲜割苜蓿青贮饲料 (P<0.05)。总体来说, 苜蓿青贮后, 养分的消化率下降, 晾晒降低了苜蓿青贮饲料的IVDMD和IVCPD。

关键词: 苜蓿; 青贮饲料; 添加剂; 体外消化率

Study on the in vitro digestibility of baled alfalfa silage

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Abstract:

The nutrient in vitro digestibility of baled alfalfa silage stored longtime was studied, which included two stage technique for IVDMD and IVCPD, and one stage technique for IVNDFD and IVADFD. The result indicated that the nutrient in vitro digestibility of direct cut baled alfalfa, except for IVCPD, and that of the wilted baled alfalfa silage decreased after ensilaged, there were not significant difference among IVDMD, IVCPD, IVNDFD, IVADFD of baled alfalfa silage with previous fermented juice or formic acid, the IVDMD and IVCPD of baled wilted alfalfa silage were significantly lower than that of direct cut alfalfa (P<0.05). It was concluded that the alfalfa nutrient digestibility decreased after ensilaged, and the wilt treatment decreased alfalfa's DM and CP digestibility.

Keywords: alfalfa; silage; additives; in vitro digestibility

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