

谷淑波 山东 山东农业大学农学院 271018

樊广华 山东 山东农业大学农学院 271018

张晓艳 山东 山东农业大学农学院 271018

**摘要:** 本文采用高效液相色谱外标法,在Waters公司的Sugar Pak I专用糖柱上,利用示差折光检测器,成功地同步测定出墨西哥玉米和苏丹草中糖类的含量。该方法快速准确,以水作流动相,柱温为90℃,相关系数在0.9998以上,加标回收率为98.7%~103.2%,精密度较高,RSD为2.67%~3.10%。测定结果表明,不同留茬和不同密度的牧草各糖组分的含量是不一样的。

**关键词:**

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## Rapid determination carbohydrates in euchsaena mexicana schrad and sorghum sudanense by HPLC

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**Abstract:** A rapid method for the determination of carbohydrates in Euchsaena mexicana Schrad and Sorghum sudanense by high performance liquid chromatography is described. The chromatography was carried out on a Sugar Pak I (300mm×6.5mm i.d)(at 90℃),using deionized water(0.0001M Calcium EDTA) and refractive index detector. The correlation coefficients were above 0.9998. The recovery rate of determination were 98.7%~103.2% and the precision were 2.67%~3.10%. The result of determination showed the content of carbohydrates is diverse from different rotations.

**Key words:**

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