生物发光法测定玉米籽粒中ATP的含量

樊广华 山东 山东农业大学农学院 271018

谷淑波 山东 山东农业大学农学院 271018

宁堂原等 山东 山东农业大学农学院 271018

摘 要:本文采用生物发光法测定玉米籽粒中ATP含量,ATP在0.01~0.5μg/mL的浓度范围内,最大发光强度与浓度的对数成线性关系,线性回归方程Y=0.9973+3.6651,相关系数为0.9991; RSD值为1.727%; 检出限为7.80×10-5μg/mL; 平均回收率94.5%, 灵敏度、精密度高,结果准确。此法可用于玉米籽粒中ATP含量的测定。 关键词:

文章全文为pdf格式,请下载到本机浏览。[下载全文]

Determination of ATP in maize kernel by bio luminescence

271018

271018

271018

Abstract: The contents of ATP in maize kernel were determined by bio Luminescence. Alon linear calibration graph which was y=0.9973x+3.6651(r=0.9991), was obtained in the range of $0.01\mu g/mL$ to $0.5 \mu g/ml$ with detection limit of $7.80\times10.5\mu g/mL$ for ATP. The RSD value was 1.727% and the average recovery of ATP was found to be 94.5%. The method was sensitive and accurate, can be applied to determinate the contents of ATP in plant organs.

Key words:

【大中小】[关闭窗口]