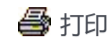


数据资源: [林业专题资讯](#)

打印

下载

分享

Application of waterborne rosin polymer coating for preserving strawberry during storage

编号 020023901

推送时间 20200518

研究领域 [林产化工](#)

年份 2020

类型 期刊

语种 英语

标题 Application of waterborne rosin polymer coating for preserving strawberry during storage

来源期刊 Journal of Food Safety

期 第239期

发表时间 20200321

关键词 [water-soluble rosin polymer;](#)

摘要 A water-soluble rosin polymer (RP) was prepared via polymerization of rosin and maleic anhydride. The structure of the RP was characterized via Fourier-transform infrared spectroscopy, proton nuclear magnetic resonance spectroscopy, and gel permeation chromatography. The RP was used as a film-forming agent on strawberries to improve their postharvest quality at room temperature. The effectiveness of this treatment was evaluated based on the impact of the RP coating on the following parameters: weight loss, total soluble solids (TSS), firmness, respiration rate, malondialdehyde (MDA) content, anthocyanin content, and total phenolic content (TPC). The samples that coated with the RP exhibited delayed respiration and loss of firmness compared with the control. Correspondingly, the samples coated with the RP had lower weight loss (14.78%), MDA content (8.13 \times ? 10 2 μ mol/g), anthocyanin content (37.86?mg/100?g), TPC (3.41 \times ?10 4 mg/100?g), and higher TSS (8.09%). The results indicated that the RP preservative could effectively maintain the freshness of fruits.

服务人员 尚玮姣

PDF文件 [浏览全文](#)相关链接: [中国工程院](#) [国家林业和草原局](#) [中国林业科学研究院](#) [中国林业信息网](#) [中国林业数字图书馆](#) [国家林业和草原科学数据中心](#)友情链接: [自然资源部](#) [科学技术部](#) [中国林学会](#) [中国科技资源共享网](#) [中国林草植物新品种保护](#) [中国林业知识产权网](#) [中国林业新闻网](#)主办单位: [中国林业科学研究院林业科技信息研究所](#) 电话: 010-62889748 E-mail: wangjiaosky92@163.com 京ICP备14021735号-2 访问量: 12656074

建议使用谷歌、火狐、360、IE8或IE8以上版本的浏览器