

玫瑰精油和壳聚糖复合涂膜 对草莓保鲜效果的影响

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摘要:以草莓为材料, 配制浓度分别为 0.1%、0.2%、0.4%、0.6%、0.8% 玫瑰精油-壳聚糖复合涂膜液对草莓进行涂膜保鲜, 以 1.25% 壳聚糖溶液浸泡草莓为对照组, 草莓自然晾干后, 于 4 °C 下冷藏储存, 每隔 24 h 测定草莓的失重率、腐烂指数、可溶性固形物含量、维生素 C 含量及总酸含量, 研究不同浓度玫瑰精油-壳聚糖复合涂膜液对草莓的保鲜效果。结果表明, 0.2% 玫瑰精油-壳聚糖复合涂膜处理草莓经 9 d 冷藏储存后, 失重率为 8.86%、腐烂率为 15.79%, 可溶性固形物含量下降至 6.8%、维生素 C 含量为 50.72 mg/100 g, 总酸含量为 0.62%, 保鲜效果最好。

关键词:玫瑰精油; 壳聚糖; 草莓; 保鲜

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Effect of Rose Essential Oil and Chitosan Composite Coating on Strawberry Preservation

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Abstract: In this paper, 0.1%, 0.2%, 0.4%, 0.6% and 0.8% rose essential oil chitosan composite coating solution were used for strawberry preservation. The strawberry soaked in 1.25% chitosan solution was used as control group. After natural drying, strawberry was refrigerated at 4 °C for storage. The weight loss rate, decay index, soluble solid content, storage time and storage time of strawberry were measured every 24 hours. The preservation effect of rose essential oil chitosan composite coating solution with different concentrations on strawberry was studied. The results showed that the weight loss rate was 8.86%, the decay rate was 15.79%, the soluble solid content was 6.6%, the VC content was 50.72 mg/100 g, and the total acid content was 0.62%, after 9 days cold storage.

Keywords: Chitosan; rose essential oil; strawberry; preservation

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