

Title Shelf-life of apples coated with whey protein
Author Majid Javanmard
Citation Abstracts Book, 6th International Postharvest symposium, 8-12 April 2009, Antalya, Turkey.
256 pages.
Keyword Shelf-life; apple; whey protein

Abstract

Edible coatings made from whey protein concentrate (WPC) and gellan gum (G) were investigated for their capacity to preserve the quality of *Malus domestica* cv Golab apples. WPC and gellan gum coatings at different concentrations, plasticized with glycerol (Gly) were tested. Postharvest storage quality conditions tested included weight loss, color and texture changes, titratable acidity and soluble solids content and consumer acceptance. The present work studied the effects of dipping in innovative coating solutions on apple in cold storage. WPC-gellan coatings with added plasticizer effectively maintained color, Firmness, glossiness and Overall acceptability of apple during storage. The collected data showed that in uncoated apple samples sensory attributes were lower than in coated samples. No differences were detected in the changes in chemical parameters (weight loss, soluble solids and citric acid) values between both samples during storage.