Title Fruit storage life of new selections of *Actinidia arguta* grown organically

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Abstract

Three new selections of *Actinidia arguta* (Sieb. et Zucc.) Planch. ex Miq.: R_8P_1, R_9P_1 and $R_{10}P_{25}$, were cultivated organically. Planting distances were 4.0 m x 2.5 m and plants were trained on T-bars. Fruit were harvested when soluble sugar content reached 7–9% and fruit firmness varied between 5.5–6.5 kg/cm^2. Fruit storage life was evaluated under three sets of conditions: room conditions (T = 20°C; RH = 65%), normal cool storage (T = 2°C; RH = 55%) and cool storage under semi-permeable low density polyethylene film (T = 2°C; RH = 90%). Fruit physical and biochemical parameters were analyzed before and after storage. The end of the storage life was taken as being when fruit were eating-ripe. Storage life varied between 9 days under room conditions and 45 days under modified atmosphere conditions achieved using the semi-permeable film, that reduced fruit metabolism, by modifying the O_2/CO_2 ratio and reduced water loss. The selection R_9P_1 had the longest storage life. No storage diseases were observed during the storage period.