

Title                Studies on the preharvest application of chemicals on shelf-life of aonla (*Emblica officinalis* Gaertn.)  
                          fruits at ambient temperature

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#### **Abstract**

The effects of preharvest sprays of 1% calcium nitrate, 0.1% Topsin-M [thiophanate-methyl], 0.1% Bayleton [triadimefon] and their combinations on the storage quality of fruits of *E. officinalis* [*Phyllanthus emblica*] cv. NA-6 were investigated. Treatment with 1% calcium nitrate + 0.1% Topsin-M was the best followed by 1% calcium nitrate + 0.1% Bayleton and 1% calcium nitrate. The lowest weight loss (11.09%) and decay loss (14.43%) were observed in fruits given 2 pre-harvest sprays of 1% calcium nitrate + 0.1% Topsin-M; this treatment prolonged shelf-life to up to 20 days compared with 10 days in the control at ambient temperature. Calcium nitrate-treated fruits had higher concentrations of Ca than control fruits. Treatment with Topsin-M and Bayleton controlled *Penicillium oxalicum* for 10 days and *Aspergillus niger* for 20 days and extended shelf life.