

**Title** Management of post-harvest diseases of Kinnow fruits through plant growth regulator and food preservative

**Author** Sharma R.N., Maharshi R.P., Gaur R.B. and Ram Jeewa

**Citation** Annals of Plant Protection Sciences, 19(1) p. 122-125, 2011.

**Keywords** Citrus fruits; Foods; Preservation; Preservatives; Plant growth substances; Postharvest decay

#### **Abstract**

Studies were conducted to evaluate the efficacy of plant growth regulator \{naphthalene acetic acid (NAA)\} and food preservative \{potassium metabisulfite (KMS)\} against post-harvest diseases. Dipping treatment of KMS solution (@ 600 ppm) proved significantly superior to NAA (@ 100 ppm) in respect of retarding the incidence of post-harvest diseases except sour rot. The reduction of 43.5, 53.6 and 40.7% incidence was recorded in core rot, stem-end rot and sour rot disease, respectively in pre-inoculation treatment of KMS (@ 600 ppm) while 28.4, 44.2 and 31.5% reduction in incidence of these diseases was noted in post-inoculation treatment of the same chemical in comparison to control. The disease incidence was found to increase with increasing period of incubation. At 6th and 8th day of inoculation, the incidence was significantly higher to the incidence occurred at 3rd and 4th day of inoculation, respectively in both pre- as well as post-inoculation treatments.