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RESEARCH PAPER

Response of different plant bioregulators for retaining marketability of guava (*Psidium guajava* L.) fruits cv. CISH G-1 stored under ambient temperature

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Abstract : Guava (*Psidium guajava* L.) is a highly perishable fruit with intense metabolic activity after harvest. Thus, novel methods need to be explored for increasing its shelf life. PGRs (Plant growth regulators) are known to modify physiological processes within a plant. Guava fruits (cv. CISH G-1) at greenish yellow stage were dipped in four different concentrations of gibberellic acid and benzyl adenine after harvest in February 2007 and were subsequently stored under ambient temperature. A wide variation was observed in various physico-chemical parameters studied. GA₃ 100ppm (T₃) was found to be best for improving significantly, length, breadth, specific gravity, CPLW per cent and acidity of guava fruits. BA 50ppm (T₄) was beneficial for enhancing TSS and GA₃ 50ppm (T₂) retained maximum ascorbic acid in guava fruits. These treatments were found to be effective for storage up to 8 days after harvest even under ambient condition.

Key Words : PGRs, Shelf-life, Guava (*Psidium guajava* L.)

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