

**Title** Postharvest physiology and technology of carved narcissus bulbs

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#### **Abstract**

The carved narcissus bulbs will develop yellowing leaf and moldy, and the calyx will wither after long term storage and transportation in dark. The postharvest physiology and technology of carved narcissus bulbs, including the effects of different storage and transportation conditions, and different postharvest handling procedures, were investigated in order to develop effective methods in controlling yellowing leaf, moldy and calyx withering, and enhancing postharvest quality. The results showed that the best postharvest system technology for carved narcissus bulbs was described: after carving the bulbs, using water culture with 50mg/L VitaCat for 14 days, fumigating with 1 ppm 1-MCP for 12 hours, packing with PE bags, storing and transporting at 4°C. The postharvest technology remarkably decreased the loss of water and chlorophyll, and reduced the content of MDA and extended the postharvest life. The marketable proportion after 36 days of simulated storage and transportation was 94.7%.