Title Effect of sodium dichloroisocyanurate and sucrose on vase life of cut roses

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## **Abstract**

Prolongation of the vase life of cut roses (*Rosa hybrida* L. cv. 'Christian Dior') by sodium dichloroisocyanurate (DICA) and sucrose was studied at room temperature (29.5°C, 77.5% RH). Cut roses were held in solutions containing 10, 20, 30, 40, 50 and 60 mg/L DICA together with 5 and 10% sucrose. It was found that cut roses held in 30 mg/L DICA with 5% sucrose had the longest vase life of 7.7 days with slight blueing and no bent neck, while the control cut roses held in tap water had a vase life of only 3.4 days with severe blueing and 58.3% bent neck. Cut roses held in the solution containing DICA and sucrose had greater solution uptake, fresh weight and water conductivity and less vascular blockages and browning of stem end underneath the solution. This holding solution also extended effectively the vase life of other rose cultivars, namely Camelot, King Ransom and Yankee.