

Paclobutrazol in the flowering management affects the quality of *Malpighia emarginata* fruits¹

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ABSTRACT

Floral management using the growth regulator paclobutrazol may be an alternative for promoting the uniformity of flowering and fruiting in West Indian cherry (*Malpighia emarginata* D.C.) plants. However, the effects of its use on fruit quality are still unknown. This study aimed to evaluate the effect of paclobutrazol doses on the fruit quality of *M. emarginata*. The experimental design was randomized blocks, in a 2 x 5 factorial arrangement, with three replications and three plants per plot, with the studied factors consisting of two *M. emarginata* cultivars ('Junko' and 'Flor Branca') and five paclobutrazol doses (0, 0.4, 0.8, 1.2 and 1.6 g a.i. m⁻² of canopy diameter). The following variables were evaluated: fruit mass, fruit transverse and longitudinal diameters, pH, soluble solids content, titratable acidity, soluble solids/titratable acidity ratio and vitamin C content. The use of paclobutrazol, to some extent, promoted the increase of fruit mass, longitudinal diameter and soluble solids contents. The 'Junko' cultivar presented a higher vitamin C content than that for 'Flor Branca', and the maximum vitamin C contents were obtained with the paclobutrazol doses of 0.64 and 0.81 g a.i. m⁻², respectively for the 'Junko' and 'Flor Branca' cultivars. None of the studied factors promoted differences for pH and fruit acidity.

KEYWORDS: West Indian cherry, floral induction, growth regulator.

INTRODUCTION

West Indian cherry (*Malpighia emarginata* D.C.) is a fruit species of the Malpighiaceae family, whose origin is undefined, although it has been reported to be native to the Caribbean and Antilles islands and commonly found in South America,

RESUMO

Paclobutrazol no manejo da floração afeta a qualidade de frutos de *Malpighia emarginata*

O manejo floral com a utilização do regulador de crescimento paclobutrazol pode ser uma alternativa para promover a uniformização do florescimento e frutificação em aceroleiras (*Malpighia emarginata* D.C.). No entanto, os efeitos de seu uso na qualidade dos frutos ainda são desconhecidos. Objetivou-se avaliar os efeitos de doses de paclobutrazol na qualidade de frutos de *M. emarginata*. O delineamento experimental foi em blocos casualizados, em arranjo fatorial 2 x 5, com três repetições e três plantas por parcela, com os fatores estudados consistindo de duas cultivares de aceroleira ('Junko' e 'Flor Branca') e cinco doses de paclobutrazol (0; 0,4; 0,8; 1,2; e 1,6 g i. a. m⁻² de diâmetro de copa). As seguintes variáveis foram analisadas: massa dos frutos, diâmetro transversal e longitudinal dos frutos, pH, teor de sólidos solúveis, acidez titulável, relação sólidos solúveis/acidez titulável e teor de vitamina C. O uso de paclobutrazol, até certa medida, promoveu o aumento da massa, diâmetro longitudinal e teores de sólidos solúveis dos frutos. A cultivar 'Junko' apresentou teor de vitamina C superior ao da 'Flor Branca', e os máximos teores de vitamina C foram obtidos com as doses de paclobutrazol de 0,64 e 0,81 g i. a. m⁻², respectivamente para as cultivares 'Junko' e 'Flor Branca'. Nenhum dos fatores estudados promoveu diferenças para pH e acidez dos frutos.

PALAVRAS-CHAVE: Acerola, indução floral, regulador de crescimento.

Central America and southern Mexico (Moura et al. 2018). In Brazil, it is present mainly in the Northeast region, where edaphoclimatic conditions are favorable to its development (Batista et al. 2018).

M. emarginata is widely used in the food and pharmaceutical industries as a natural source of vitamin C, with contents that may exceed 50-100 times

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The Flowering Of Management

James E. Faust, John Dole



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