Characterizations of major antioxidants at harvest-maturity and edible-ripening stages of three mango (*Mangifera indica* L.) cultivars

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Abstract

The contents and their dynamic arrangements of six antioxidants and total antioxidant capacity in the three mango (*Mangifera indica* L.) cultivars, 'Tainong No.1' ('Haden' × 'Irwin'), 'Yuexi No.1' (the progeny of 'Carabao') and 'Chunhuang' ('White' × 'Keitt'), were estimated at fruit harvest-maturity (harvesting stage) and edible-ripening stages in South China. The results showed that, both at fruit harvesting and edible-ripening stages, total carotenoid contents and total antioxidant capacity were in the order: 'Yuexi No.1'>'Tainong No.1'>'Chunhuang'; the ascorbic acid (AA) content was 'Tainong No.1'>'Yuexi No.1'>'Chunhuang'; total polyphenol content was 'Yuexi No.1'>'Chunhuang'>'Tainong No.1'> 'Chunhuang'> 'Tainong No.1'> 'Chunhuang'> 'Yuexi No.1' At fruit harvesting stage, total flavonoid content was 'Tainong No.1'> 'Chunhuang'> 'Yuexi No.1' and **Q**-tocopherol content was 'Yuexi No.1'> 'Tainong No.1'> 'Chunhuang' No.1'> 'Chun