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Selection of Lactic Acid Bacteria Suitable for Ferme and Changes in Components Due to Fermentation

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In order to optimize production of fermented tomato juice, suitable were selected, and the changes in constituents during fermentation Fermentation and sensory evaluation showed that *Lactobacillus bi* and *L. helveticus* JCM-1120 produced a preferable juice among t bacteria. These two strains produced much lower diacetyl and acet in tomato juice that contains a high level of citric acid. These results minimal production of these compounds from citric acid as well as factor for selection of bacteria in preferable fermented vegetable ju decrease in hexanal, a representative aldehyde in tomato juice, app taste improvement after fermentation. The nutritional requirements f and bases for the growth of the two bacterial strains were also chai

Keywords: tomato juice, lactic acid fermentation, diacetyl, acetoin carotenoid

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