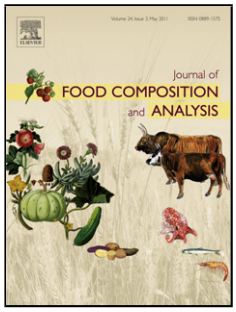

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Lactobacillus fermentation of jussara pulp leads to the enzymatic conversion of anthocyanins increasing antioxidant activity

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Highlights

- Nine strains were capable of changing the main anthocyanin chromatographic profile;
- *Lactobacillus deubruekii* more extensively changed the jussara anthocyanins;
- A culture medium containing jussara pulp and glucose was optimized;
- Protocatechuic acid was the main bioconversion product from the anthocyanins;
- Antioxidant activity of jussara pulp increases after fermentation process.

Abstract

Bacteria possessing an enzymatic system able to metabolize anthocyanins may play a major role in the production of compounds with different bioavailability and biological activity. In this study, *Lactobacillus* and *Bifidobacterium* strains were screened for the enzymatic activities of α-galactosidase, β-galactosidase and β-glucosidase. These strains were also screened for their