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Development of Milky Products Leavend by Kefir Grains with Reduced Lactose and Flavored with Tropical Fruit

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Abstract : The state of Sergipe has been emerging in milk production, mainly in the dairy basin located in the northeast of the state of the Brazil. However, this area concentrates the production of dairy, developing diverse products with higher aggregated value and scent and regional flavours. With this goal the present wok allows the development of dairy drinks with reduced lactose index, using kefir grains flavored with mangaba pulp. Initially, the removal of milk lactose was evaluated in adsorption columns completed with silica particles obtained by molecular impression technique, using sol? gel method with the presence and absence of lactose biomolecule, molecular imprinted polymer (PIM) or pure matrix (MP), respectively. Then kefir grains were used for the development of dairy drinks flavored with regional fruits (mangaba). The products were analyzed sensorially, evaluated the probiotic potential and the removal of the lactose. Among the products obtained, the one that present best result in the sensorially was to the drink with removal PIM flavored of mangaba, for which around 60% of the testers indicated that would buy the new product.

Keywords: molecular imprinted polymer, milk, lactose, kefir

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