

ABSTRACT

PHYSICOCHEMICAL CHARACTERISTICS OF THE THREE TYPES OF FERMENTED TAPIOCA (CASE STUDY ON THE ITARA RUKUN SANTOSA EAST LAMPUNG)

By

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ITARA Rukun Santosa is a rural-scale tapioca industry that produces three types of products consisting of tapioca, aci puter, and elot. Up to now, the three types of tapioca have never been tested for their physicochemical quality. The purpose of this study was to determine the physicochemical properties of the three products produced by ITARA Rukun Santosa. Quality testing includes the appearance of granules, moisture content, swelling power, water absorption ratio, gel formation, iodine and pH tests. The study was designed using a non-factorial randomized block design with four treatments, namely three ITARA Rukun Santosa samples (tapioca, aci puter, and elot) and one commercial tapioca sample used as a comparison. Samples were taken for 6 repetitions. The results showed that there were differences in the physicochemical properties of each tapioca product produced by ITARA Rukun Santosa.

Keywords: aci puter, elot, physicochemical, tapioca

ABSTRAK

KARAKTERISTIK SIFAT FISIKOKIMIA TIGA JENIS TAPIOKA FERMENTASI (STUDI KASUS ITARA RUKUN SANTOSA LAMPUNG TIMUR)

Oleh

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ITARA Rukun Santosa merupakan industri tapioka skala pedesaan yang memproduksi tiga jenis produk yang terdiri dari tapioka, aci puter, dan elot. Ketiga jenis tapioka tersebut sejauh ini belum pernah diuji mutu fisikokimianya. Tujuan penelitian ini adalah untuk mengetahui sifat fisikokimia dari ketiga produk yang dihasilkan oleh ITARA Rukun Santosa. Pengujian mutu meliputi uji penampakan granula, kadar air, swelling power, nisbah penyerapan air, pembentukan gel, uji iodin dan pH. Penelitian dirancang menggunakan Rancangan Acak Kelompok non faktorial dengan empat perlakuan yaitu tiga sampel ITARA Rukun Santosa (tapioka, aci puter, dan elot) dan satu sampel tapioka komersial yang digunakan sebagai pembanding. Sampel diambil sebanyak 6 kali pengulangan. Hasil penelitian menunjukkan bahwa terdapat perbedaan sifat fisikokimia masing-masing produk tapioka yang dihasilkan ITARA Rukun Santosa.

Kata kunci: aci puter, elot, fisikokimia, tapioka