

Zygosaccharomyces machadoi* sp. nov., a yeast species isolated from a nest of the stingless bee *Tetragonisca angustula

Carlos A. Rosa¹ and Marc-André Lachance²

1 Departamento de Microbiologia – ICB, C.P. 486, Universidade Federal de Minas Gerais, Belo Horizonte, MG, 31270-901, Brazil E-mail: carlrosa@icb.ufmg.br 2 Department of Biology, University of Western Ontario, London, Ontario, N6A 5B7, Canada.

Abstract

A new yeast species, *Zygosaccharomyces machadoi*, was discovered in garbage pellets of the stingless bee *Tetragonisca angustula* in Brazil. Analysis of the sequence of the D1/D2 domains of the large-subunit rDNA showed that the new species is related to *Zygosaccharomyces rouxii*. *Z. machadoi* probably causes food spoilage in hives of stingless bees. It assimilates only a few carbon sources such that it is difficult to distinguish it from other *Zygosaccharomyces* species based on conventional physiological tests. The type strain of *Z. machadoi* is UFMG-J01-63.2^T (= CBS 10264^T).

Keywords: *Zygosaccharomyces machadoi*, stingless bees, honey, garbage pellet