

Author: Keyword: 

Search

[ADVANCED](#)[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

ONLINE ISSN : 1880-7291

PRINT ISSN : 1344-7882

**Journal of Applied Glycoscience**

Vol. 51 (2004) , No. 3 pp.255-257

[\[PDF \(410K\)\]](#) [\[References\]](#)**Production and Rheology of Exopolysaccharide by the Yeast  
*Rhodotorula mucilaginosa* YR-2**Jun Takita<sup>1)</sup>, Ruriko Itano<sup>1)</sup>, Naoya Morii<sup>1)</sup>, Futoshi Ebina<sup>1)</sup>, Kiichi Matsuda<sup>1)</sup> and Shigeyoshi Katohda<sup>2)</sup>

1) Food Research Section, Center Institution, Nitto Best Corp.

2) Department of Bioresource Engineering, Yamagata University

(Received September 20, 2003)

(Accepted March 20, 2004)

The production and rheology of exomannan by the yeast *Rhodotorula mucilaginosa* YR-2 was studied. Cultures were incubated at 30°C in medium (sucrose: 100 g/L; ammonium sulfate: 20 g/L). Fermentation used a 10-liter fermentor aerated at 1 vvm, and 550 rpm. During culture, the pH was adjusted to 1.8 with ammonia solution. The maximum amounts of exopolysaccharide (7.8 g/L) and biomass (39.2 g/L) were obtained at 120 h. This mannan was much less viscous than other polysaccharides, and had excellent physical stability in terms of pH, freezing, and NaCl concentration.

**Key words:** *Rhodotorula*, mannan, viscosity, physical stability[\[PDF \(410K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)[RIS](#)[BibTeX](#)

Jun Takita, Ruriko Itano, Naoya Morii, Futoshi Ebina, Kiichi Matsuda and Shigeyoshi Katohda: Production and Rheology of Exopolysaccharide by the Yeast *Rhodotorula mucilaginosa* YR-2 . *J. Appl. Glycosci.*, **51**, 255-257 (2004) .

---

JOI JST.JSTAGE/jag/51.255

*Copyright (c) 2008 by The Japanese Society of Applied Glycoscience*

---



---

[Japan Science and Technology Information Aggregator, Electronic](#)

