

Extraction of Two Active Polysaccharides from the Yeast Cell Wall

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Yeast cell wall matrix particles are composed entirely of β -glucan and mannoprotein. Alkali-insoluble (1 \rightarrow 3)- β -D-glucan was extracted from the yeast cell wall by an alkaline-acid method. IR spectra analysis showed that the product was chemically pure glucan, that is to say, it contained no other carbohydrates and proteins. So, the alkaline-acid method was ideal for extracting (1 \rightarrow 3)- β -D-glucan from the yeast cell wall. We also purified and analyzed mannan oligosaccharides by the dilute alkali-Sevage method from the yeast cell wall.

Key words: (1 \rightarrow 3)- β -D-Glucan, Mannan Oligosaccharides, Yeast Cell Wall