



Safety assessment studies of probiotic *Saccharomyces boulardii* strain Unique 28 in Sprague-Dawley rats

Sudha M. R. (2011). Safety assessment studies of probiotic *Saccharomyces boulardii* strain Unique 28 in Sprague-Dawley rats. *Beneficial microbes*, 2(3), 221–227.

Summary:

Background:

Strains of *Saccharomyces boulardii*, a probiotic yeast, have been found to be effective in the treatment of diarrhoea, inflammatory bowel disease, irritable bowel syndrome and other conditions.

Materials and Methods:

In the present study, Unique 28, a strain of *S. boulardii* isolated and characterised in our laboratory, was evaluated for its safety assessment. Acute and subacute toxicity tests were performed in rats. The dose of Unique 28 (5×10^9 cfu/g) fed orally was, up to 6,500 mg per kg of b.w. (body weight) for acute toxicity and up to 1,300 mg per kg of b.w. for sub-acute toxicity studies.

Results:

This dose was well tolerated and there was no morbidity or any kind of toxic clinical symptoms displayed either in male or female rats. Moreover, the results of sub-acute toxicity studies using Unique 28 administered for 14 weeks indicated that there were no clear unwanted treatment related effects.

Conclusion:

Overall results of this toxicology assessment indicate that Unique 28 is safe for human consumption.
