CHEMICAL CHARACTERISATION AND DIL
HYDROLYSIS OF RICE HULLS FROM AN AI

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Abstract

The chemical composition of rice hulls produced in an artisan mill and
sugars was investigated. The carbohydrate fraction represented 59.2%
Cellulose, with 36.6%, was the main component, followed by xylan wit
contribution of starch (8.7%) was also detected. The content of ash (1
comparable with that of rice hulls obtained in industrial mills. Dilute-su
different temperatures, from 160 to 210°C, was evaluated for product
to starch hydrolysis, the concentration of glucose in the hydrolysates
than the values that have previously been reported for industrial sorts
conditions. The xylan-to-xylose conversion increased steadily with inc
reached a maximum (67.7%) at 190°C. Further increases of the hydr