

**Effect of fermentation time and acid casein concentration as nitrogen source on microbial rennet production**

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## **Summary**

This work aimed to evaluate the fermentation time and acid casein content effect on the microbial rennet obtained by solid-state fermentation using wheat bran as the carbon source. The experiments used two fermentation times (72 and 96 h), while acid casein content was 1.5, 2.0, 2.5, and 3.0 g. Rennet strength from eight enzymatic extracts was measured using pasteurized whole milk. Rennet strength of samples from 72 h of fermentation showed an increase when acid casein content as increased. The rennet strength increased at 96 h of fermentation with increasing amount of casein (up to 2.5 g), and then decreased with the largest addition (3.0 g) of casein. Higher values of rennet strength at 96 h of fermentation with 2.5, and 3.0 g of acid were observed, 228.57, and 106.66, respectively. Coagulation time for the sample with highest rennet strength was 420 s.