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**SEARCH FOR AN 'ADAPTIVE ENZYME' SUCROSE PHOSPHORYLASE IN
SUCROSE UTILIZING BACTERIA**

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Leuconostoc sp. from toddy and from cabbage and a *Klebsiella* sp. were grown in sucrose phosphate medium. *Klebsiella* sp. reached the late log phase in 9-10 h while *Leuconostoc* sp. from cabbage took 12-14 h and that from toddy 2½-3 days.

Enzyme extract was obtained by ultrasonic vibrations followed by centrifugation. Enzyme activity was assayed by determining the increase in glucose-1-P or decrease in phosphate. The activity was also measured spectrophotometrically at 340 nm by coupling the glucose-1-P to the enzyme systems of phosphoglucomutase and glucose-6-P dehydrogenase.

Studies indicated the presence of invertase but not the sucrose phosphorylase.

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