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Fermentation of Glucose and Fructose by *Leuconostoc mesenteroides*

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Abstract: The preferred order of glucose and fructose uptake by *Leuconostoc mesenteroides* was investigated in Glucose Fructose Yeast Extract Amino Acid medium with and without the addition of salt under anaerobic conditions. Strains NCIMB 8023 and NCFB 811 preferentially utilised glucose over fructose. A higher biomass was obtained when employing strain NCIMB 8023 compared with strain NCFB 811. The strains studied produced lactate and ethanol as major end-products, with lactate synthesis being greater than ethanol. Small amounts of acetate and mannitol were also formed.

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