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Carbon Dioxide Effects on the Growth and Metabolites of Morphological Variants of Streptococcus thermophilus

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The effects were studied of agitation and addition of CO_2 and NaHCO_3 on growth of two morphological variants of *Streptococcus thermophilus* CNRZ 368 that differed in their cell morphology and chain length. The growth yield of the diffuse variant (D12) was decreased by agitation of the culture and increased by the addition of CO_2 , Tween 80, and NaHCO_3 . The growth of the opaque variant (D31) was unaffected either by the agitation or by addition of CO_2 but was stimulated by addition

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of $NaHCO_3$. The culture inhibition of D12, when it is agitated, was not reversed by addition of catalase. The results suggest that agitation may exert its influence on growth of D12 through a CO_2 deficiency. The $NaHCO_3$ did not affect activity of glycolytic enzymes but increased production of lactic, acetic, and formic acids.

Key Words: Streptococcus thermophilus • morphological variants • carbon dioxide • metabolites production

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