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The ability of sulfate-reducing bacteria of various taxonomic groups to synthesize extracellular hydrocarbons

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Abstract

Sulfate-reducing bacteria of various taxonomic groups were found to synthesize extracellular hydrocarbons during growth on lactate in an atmosphere of H₂ + CO₂. The most active producers of hydrocarbons were sulfate-reducing bacteria bringing about incomplete oxidation of lactate. Hydrocarbons produced were normal or isomeric alkanes with a chain length from C₁₁ to C₂₄. © 1997 MAHK Hayka/Interperiodica Publishing.

Keywords

Hydrocarbons, Sulfate-reducing bacteria