

Study of methods for the cultivation of anaerobic cellulose-degrading bacteria

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Abstract

A preliminary investigation of the use of different media for isolation and cultivation of anaerobic, cellulolytic bacteria was undertaken. Plant material, paper and leachate samples from a landfill site as well as a soil sample from a compost heap were processed and various media inoculated using anaerobic techniques. Cellulose degradation was obtained using anaerobic cellulolytic media for mesophiles at 10^{-1} and 10^{-2} dilutions at a temperature of 37°C and a pH ranging from 7 to 7.2. Results were obtained after 7 to 14 d.