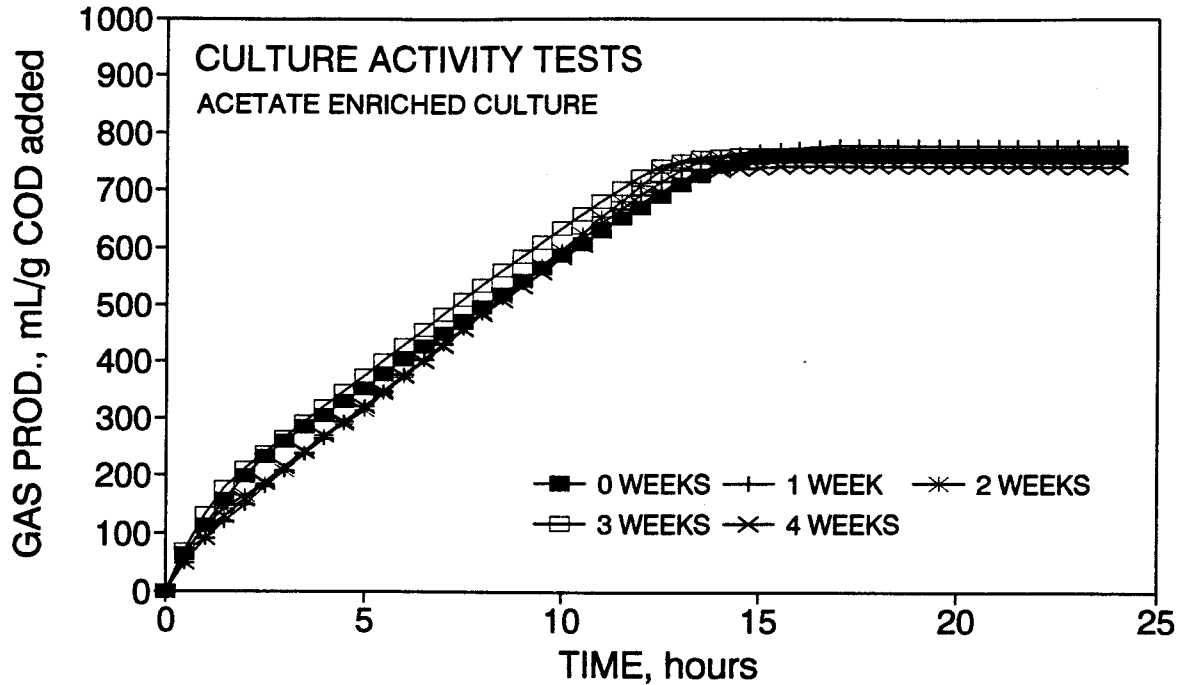


APPLICATION: CULTURE ACTIVITY TESTS



Waste Type: Synthetic (Acetic Acid)

Objective: To monitor the gas produced by steady-state cultures receiving acetate as the input substrate. Another objective was to verify the consistency of gas production over a period of time as a means of verifying culture stability and test repeatability.

Test Setup: Master culture reactors were dosed with a known amount of acetate followed by measurement of gas production over 24-hour intervals using a CHALLENGE ANR-100 respirometer.

Analysis: The amount of gas produced from acetate was consistent from day to day over a period of 5 weeks and agreed closely with the theoretical amount of 790 mL/g COD added.