

Sterile 8 reactors of 1L contained of MSM.

4 Reactors are used in the first method

4 Reactors are used in the second method



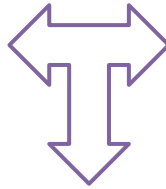
Four reactors named A, B, C, and D.

Reactor D is control reactor. This reactor only contains toluene.



In the first method, the amount of bacteria is variable and the concentration of toluene is constant.

In the second method, the amount of bacteria is constant and the concentration of toluene is variable.



Results:

The results of the present study demonstrated that increasing bacterial in suspension growth reactor resulted in increased toluene biodegradation in shorter time while increasing toluene as a source of energy in suspension growth reactor may not have an additive effect on the biodegradation process.