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(57) Abstract :

The present invention discloses a novel method for the detection of intracellular PHB depolymerase enzyme. To assess this, the pre weighed discs of 1_cm diameter prepared from polythene bags and disposable plastic cups will be aseptically transferred to the conical flask containing 50 ml of culture broth medium in a ripalysis buffer (pH 6.0), inoculated with different bacterial and fungal species separately. Nutrient broth medium will be used for bacteria and Rose Bengal broth medium for fungi. Control will also maintain with plastic discs in the microbe-free medium and left in a shaker. After one month of shaking, the plastic discs will be collected, washed thoroughly using distilled water, shade-dried and then weighed for final weight. From the data collected, weight loss of the plastics and polythene bags, will be calculated.

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