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(57) Abstract :

ABSTRACT: Title: A Method of Optimization of L-Glutaminase from Streptomyces Luteogriseus Isolated from Marine Sediment
The present disclosure proposes a method that optimizes L-Glutaminase from Streptomyces Luteogriseus isolated from marine sediment. Initially, each dilution is on starch casein agar plates for preparing a medium. Next, rifampicin and cycloheximide are added to the medium for inhibiting bacterial and fungal contamination. Later, pH value is adjusted by using NaOH and allowed to sterilize in an autoclave. Next, the each dilution is injected on the starch casein agar plates using a spread plate method and allows the starch casein agar plates to incubate. Finally, morphological characteristics of colonies with different colony characteristics are selected for displaying abilities to produce L-Glutaminase that assists to inhibit cancer cell proliferation. The proposed method for isolating L-Glutaminase that is used for cancer therapy, as malignant and carcinoma cells require external sources of amino acids to proliferate and multiply, unlike healthy tissues.

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