

(54) Title of the invention : METHOD OF PRODUCING INDOLE ACETIC ACID (IAA) BY BACTERIAL ISOLATES OBTAINED FROM AGRICULTURAL SOIL

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(57) Abstract :

Method of producing indole acetic acid (IAA) by bacterial isolates obtained from agricultural soil. The bacterial isolates contain *Escherichia fergusonii*. The method of producing indole acetic acid (IAA) comprising, inoculating L-Tryptophan supplemented nutrient broth with bacterial isolates, centrifuging the nutrient broth, mixing supernatant with ethyl acetate, and adding mixture in petri plate, adding methanol in dried petri plate for removing impurities and collecting settled down substance powder of indole acetic acid (IAA). The extracted indole acetic acid (IAA) is in a crystalline pure powder form. The use of bacterial isolates in production of indole acetic acid (IAA) helps in preventing soil pollution by avoiding use of chemicals.



Fig 1

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