

**ISOLATION AND DETECTION OF *Pseudomonas* sp. IN
DIFFERENT TYPE OF SOILS USING PCR METHOD**

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ABSTRACT

ISOLATION AND DETECTION OF *Pseudomonas* IN DIFFERENT TYPE OF SOILS USING PCR METHOD

Soil is considered to be one of the most common resource in the world and housed to many types of organisms such as plants and microorganisms. Different types and conditions of the soils give and influence on the microorganisms that lives in soils as this might affect their nutrient uptakes and living condition. Among the microorganisms that can be found in soil is *Pseudomonas*, a gram-negative bacterium that is known for its pathogenic characteristics. This study is aimed to isolate and detect the presence of *Pseudomonas* in different types of soils by using Polymerase Chain Reaction method. The study shows that *Pseudomonas* was successfully isolated from agriculture plantation, sewage planation, and also playground soil. They are gram-negative and pathogenic bacteria. PCR method was used by amplifying the target DNA segment of the bacteria by using specific primers. Results from the PCR process produce bands at the size between 200 bp and 300 bp which is met the expected results. Thus, it can be concluded that *Pseudomonas* bacterium does indeed lives in different types of soils and can be identify by using PCR methods.