

ISOLATION AND DNA EXTRACTION OF SOIL BACTERIOPHAGES OF BACILLUS SUBTILIS

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ABSTRACT

Bacteriophages specific to *Bacillus subtilis* were isolated from soil. The soil sample isolated was enriched with phage/SM buffer before purification. The plaque produced by the phage was purified by the stab method. Upon purification, the purified phages was used to prepare a high titer lysate suspension. Phage DNA was extracted from the purified phage lysate prepared using phenol chloroform method and subjected to agarose gel electrophoresis. The smear that formed on the agarose gel was analysed. The size of the smear obtained was between 100 base pairs to 750 base pairs, which did not fall in range of the size of the genomic DNA of the phage. Hence, DNA was not successfully isolated from the phage.