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***Pseudomonas* sp. BCNU171의 Phenol 분해 특성**

주우홍*, 최승태**, 정영기***

Characteristics of *Pseudomonas* sp. BCNU171 on biodegradation of phenol

*창원대학교 생물학과, **창원대학교 유전공학연구소, ***동의대학교 미생물학과

The optimal conditions for degrading phenol of *Pseudomonas* BCNU171 were investigated. It was verified that 90% of phenol was degraded when this strain was cultivated in the medium added 500ppm phenol, and the growth of this strain affected over 500ppm resulted in insignificant growth of this strain on 3,000ppm of phenol. Moreover this strain having plasmid DNA had the tolerance to heavy metal (Cu, Zn, Ni, Pb). The optimal condition for cultivation is 30°C, 7 of pH and the modified colorimetric method was used for the assay of residual phenol.