Comparative Characteristics of a Korean *Xenorhabdus*nematophilus Strain Versus Other Entomopathogenic Bacteria

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A symbiotic bacterium, Xenorhabdus nematophilus, was isolated from the entomopathogenic nematode Steinernema carpocapsae collected in To understand genetic homology with other X. nematophilus Korea. strain and other symbiotic bacteria (X. nematophilus F1, X. poinarii G6, X. beddingii Q58, Photorhabdus luminescens subsp. temerata C1). physiological and molecular characteristics were compared. They were different in pathogenicity to the fifth instar larvae of Spodoptera exigua when they were injected into the larval hemoceol. They were different in fatty acid composition and carbon utility analyzed by Sherlock and Biolog identification systems, respectively. PCR-RFLP against 16S rDNA were performed and showed variation among the entopathogenic bacteria. DNA sequence analysis of 16S rDNA was also performed and compared.