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Research Paper

***LYSINIBACILLUS SPHAERICUS* INFECTION IN MUGA SILKWORM
(*ANTHERAEA ASSAMENSIS* HELFER, LEPIDOPTERA: SATURNIIDAE):
A NEW REPORT**

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ABSTRACT

In an experimental probe to detect the pathogenic bacteria affecting muga silkworm, a new strain was isolated and identified as *Lysinibacillus sphaericus* SIVAAB-13. It formed spores and the infection caused mortality of muga silkworm larvae. Identification was based on the biochemical characteristics and 16S rDNA sequences analysis which revealed similarity with the reference strain JUN-6. *L. sphaericus* was detected for the first time as pathogenic bacteria in the intestine of muga silkworm.

Key words: 16S rDNA, biochemical characteristics, *Lysinibacillus sphaericus*, muga silkworm.