

## **A COMPARATIVE STUDY OF HEMOLYMPH PROTEIN PROFILES OF NORMAL AND INFECTED LARVAE OF MUGA SILKWORM *ANTHERAEA ASSAMA* WW**

**BHAVNA PRISHNEE BAISHYA<sup>1</sup>, SUNAYAN BARDOLOI<sup>2</sup> & RUPJYOTI BHARALI<sup>3</sup>**

<sup>1</sup>Research Scholar, Department of Biotechnology, Gauhati University, Guwahati, Assam, India

<sup>2</sup>Department of Zoology, B. Borooah College, Guwahati, Assam, India

<sup>3</sup>Professor, Department of Biotechnology, Gauhati University, Guwahati, Assam, India

### **ABSTRACT**

Repertoire of hemolymph proteins of normal and infected larvae of *Antheraea assama* were estimated by performing sodium dodecyl sulphate polyacrylamide gel electrophoresis (SDS-PAGE) resulting in a series of protein bands in the gel. These protein bands in both normal and infected larvae were compared depending on the number of observed bands, and their molecular weight. From the study it was found that the hemolymph of infected larvae had fewer proteins as compared to the normal healthy larvae. This may be attributed to the overwhelming of the humoral immune system of the larvae due to infection.

**KEYWORDS:** *Antheraea assama*, Hemolymph, Immune System, Protein Profile, SDS-PAGE