

fecundity was 1513.50 ± 21.92 eggs. Eggs were laid one over the other in two to three layers, and with $81.50 \pm 8.49\%$ hatching and incubation period of 3.00 ± 0.00 days.

There were six larval instars, width of the head capsule being 0.09 ± 0.01 , 0.23 ± 0.03 , 0.45 ± 0.03 , 0.73 ± 0.04 , 1.3 ± 0.14 , and 2.4 ± 0.23 mm, respectively; length was 1.02 ± 0.14 , 1.82 ± 0.28 , 3.82 ± 0.22 , 6.87 ± 0.23 , 12.5 ± 0.10 and 25.2 ± 0.08 mm, respectively. Larval period was about 15.50 days. Arrangement of crochets was found to be uniordinal meso-series, with mean length of the crochets being 0.301 mm. Pupa reddish brown, measuring about 14.83×4.28 mm, with duration of 8.50 days; it was observed as 9 days when reared on artificial diet (da Silva et al., 2017).

Adult moths have wingspan of 31.54 and 34 mm in male and female, respectively; and body length was 16 and 18 mm, respectively. Forewing in male shaded with grey and brown, having triangular white spots at the tip and near the centre; in females less distinctly marked, ranging from a uniform greyish brown to a fine mottling of grey and brown. Hind wing iridescent silvery white with a narrow dark border in both sexes. The preoviposition period was 1.75 ± 0.35 days, with most eggs deposited 1.3 ± 1.41 days, with a longevity of 9 ± 0.52 days. Prasad et al. (2019) evaluated larvae of *S. frugiperda* using multiple choice tests regarding food preference for the artificial diet and reported that larvae preferred diet made of corn flour. The present study revealed total lifecycle of about $32.50 - 41.50$ days. Similar results were observed by Sharanabasappa et al. (2018) when the larvae were reared on maize leaves.

Thus, present results revealed that rearing on

modified artificial diet led to similar duration to complete biology similar to when reared on maize leaves, and the diet can be used in laboratory rearing.

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