

segments a lateral, a super and a sub-stigmatal row of tubercles; the caudal part of each segment bears one tubercle, which is in the lateral row. The tubercles in the lateral rows on the thirteenth segment coalesce mesally. One or more hairs grow from each tubercle. Ventral surface sordid white with brownish tubercles. On the ventral surface there is a lateral row of brownish lunate tubercles, and on those segments not bearing legs there are transverse rows of four tubercles, those laterad being the larger. True legs brown with blackish tips. Five pairs of prolegs, occurring upon the seventh to the tenth and thirteenth segments inclusive. Prolegs short with brownish tips.

Pupa (Fig. 1, c, d), length 13 mm.; 3 mm. across the thorax. General colour light brown, venter lighter. Eyes prominent and usually dark coloured. The cephalic part of the pupal case is divided by sutures. Several of these unite at the base of the wing covers, where the chitine is thickened, darker coloured and pushed out into minute ear-like processes, which appear like dark spots. On the dorsum of the abdominal segments there are three dark stripes², extending from the thorax to the tip of the abdomen; one on the meson and the others, one on each side, just mesad of the spiracles. Abdominal sutures darker, darkest on the dorsum. Spiracles dark brown.

Adult (Fig. 1, e, f).

Male Genitalia.

Harpe (Fig. 2, g), membraneous; size 1.55 mm. by .81 mm.; mesal surface concave.

Clasper (Fig. 2, g), chitinous; fulvo-ferruginous; sickle-shaped.

Venation of wings (Fig. 2, h). Frenulum of ♂ a single spine, of ♀ two spines.

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