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植物保护一研究报告

干燥条件下不同低龄期饲料对黄粉虫幼虫的影响

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摘要:

为探索低龄黄粉虫幼虫饲喂不同饲料对幼虫死亡率、体重、化蛹和发育历期的影响。在温度22~28℃、相对湿度30%~45%的条件下,34日龄前饲喂5%奶粉、10%奶粉、100%麸皮、20%玉米粉、40%玉米粉、60%面粉、100%面粉和100%玉米粉8种饲料,后改饲喂纯麸皮饲料,期间不添加其它饲料或水,分别在34日龄和161日龄调查死亡率和体重,每周检查幼虫的化蛹情况。结果表明,34日龄的幼虫体重和死亡率差异极显著,100%玉米粉死亡率(44.00%)最高、体重(0.677 mg/头)最轻,与其它处理之间差异极显著,5%奶粉死亡率(4.33%)最低、体重(1.804 mg/头)最重;各处理对161日龄幼虫的体重影响差异不显著,5%奶粉、10%奶粉和40%玉米粉的死亡率显著低于其它处理。总之,低龄幼虫期饲喂高蛋白饲料可使幼虫期的死亡率下降,幼虫发育历期略有延长,化蛹时间相对较为集中,但对大龄幼虫的体重影响不明显。

关键词: 发育历期

Effect of Different Food for Young Larvae and Drying Conditions on Tenebrio molitor L. Larvae

Abstract:

Effect of different feeds for young larvae on death rate, weight and developmental period were studied in dry conditions. Under the condition of $22 \sim 28^{\circ}$ C, 30%-45% relative humidity, 8 kinds of food were supplied for the larvae before the 34 days-age, including 5% milk powder, 10% milk powder, 100% wheat bran, 2% maize powder, 4% maize powder, 60% wheat flour, 100% wheat flour or 100% corn flour, then 100% wheat bran was fed to all Larvae, even no water was added. The death rate and weight of Larva were determined at 34 and 161 days-age, and the number of pupation was determined every week. The results showed that: at 34 day-age, the results showed that the death rate and weight of Larva were significantly different, the death rate of feeding 100% maize powder group achieved maximum (44.0%), and its weight was minimum (0.677 mg/head), while the death rate of 5% milk powder was lowest (4.33%), and its weight was highest (1.804 mg/head). At 161 day-age, the weight of Larva was not significantly different, but the death rate of 5% milk powder, 10% milk powder or 100% wheat bran group was significantly lower than other group. In sum, supplementing protein-rich feed would decrease the death rate, elongate slightly the development period, centralize the pupating progress of larvae, but there was not significantly effect on weight of old Larva.

Keywords: developmental period

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