

Driedfruit Beetle, *Carpophilus hemipterus* (L.); Coleoptera: Nitidulidae

Origin: 1978; Fresno County; Clovis, CA; Italian Swiss Colony Winery

Diet/Culture: Banana (or Fig) on top of Soil OR Sand Substrate in Quart Jars (See Appendix)

Tasks Performed: Weekly

<u>Day</u>	<u>Procedure(s)</u>
Monday	
Tuesday	Feed; Set up New Cultures with Egg Layers; Remove Egg Layers from last week's cultures
Wednesday	
Thursday	
Friday	

Set up Egg Layers/New Cultures; Feed; Remove Previous Egg Layers (adults):

Materials:

- Quart colony jars filled with autoclaved soil or 40 mesh sand (we set up 3 cultures weekly)
- Bananas, washed in warm soapy water and rinsed in cool water (ca. ¼ to 1/3 banana is placed in each of 3 culture jars)
- Paper towels
- Terry cloth towel
- SS pan filled about ½ full with warm, soapy water, placed in center of towel
- Cutting board and knife
- Aspirator

Procedure – performed under fumehood:

1. Wash and rinse bananas and place on paper towels to remove excess water
2. Put all cultures onto lab cart and bring near fumehood
3. Agitate cultures to cause adults to move up sides and to lid of culture
4. Cut ends off bananas and cut into thirds or fourths (pieces about 1½" long)
5. Place new culture jars in fumehood; remove lids
6. Place one piece of banana on surface of sand in each new culture jar
7. Beginning with oldest jars *, place one culture at a time in center of SS pan
8. Remove lid, aspirate adults from lid and sides of jar
9. Put one slice of banana in jar, replace lid, and set aside on towel
10. Repeat steps 6 & 7 for two more jars of different ages/setup dates
11. Transfer ca. 150-250 adults into each new culture jar
12. Close jar with wire mesh and filter paper lids and brass screw caps
13. Oviposition period is 7 days for DFB
14. Continue by feeding remaining colony jars (steps 6 thru 9)
15. Remove (aspirate) adults from last week's setups before feeding
16. Return all jars to holding room for development
17. Discard oldest colony jars by removing labels and placing in freezer

* Oldest colony jars will be discarded – DO NOT FEED

Clean up:

Wipe down and disinfect surfaces of fumehood and cart before handling another species
Place all materials used in handling insect in freezer before proceeding