

# MuseumPests.net

A Product of the Integrated Pest Management Working Group

## Larder Beetle

*Dermestes lardarius* (Linnaeus)



### GENERAL INFORMATION

Larder beetles are cosmopolitan, distributed around the world in both tropical and temperate regions. There are two types of larder beetles, the larder beetle (*Dermestes lardarius*) and the black larder beetle (*Dermestes ater*). The black larder beetle is commonly used as a "museum volunteer" to clean carcasses as part of the skeletonization process of zoological specimens. Special care should be taken to contain the beetles and it is recommended that the dermestariums are located separate from collection areas.

### SIGNS OF INFESTATION

Larval larder beetles damage museum specimens through feeding and there will be casts of their shed skins as they complete several molting stages on the way to maturity. They also can cause considerable structural damage to specimens or buildings when the larvae burrow pupal chambers.

### FOOD SOURCES

Both the adults and larvae of larder beetles feed off a variety of animal-based foods, such as raw skins, raw hides, and carcasses. The larvae, in particular, are voracious eaters. Food choices also include small bones, wool that has high-protein stains such as sweat or blood, furs, feathers, hair, stored tobacco, cured and dried meat, dish, stuffed animals, dead insects in wall voids including cluster flies, abandoned bird nests, dead rodents in wall partitions or chimneys, inactive beehives, and even rat or mouse poison baits.

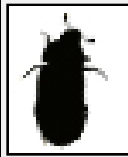
### LIFE CYCLE



### DIAGNOSTIC MORPHOLOGY

#### Adults:

- 7-9 mm long
- Antennae end in a 3 segmented club
- *Dermestes lardarius* is black, with a broad, yellowish band with black spots across bases of wing covers. The underside is white with lateral black patches.



#### Immature Stage:

- Up to 14 mm long,
- Yellowish brown with fine dorsal cleavage line
- Two curved spines, or "hooks" on the anterior end of larvae

Larder beetles rest in winter and become active in the spring. The female larder beetle has the potential to lay hundreds of eggs, and these are laid singly or in small batches on the food source. Eggs hatch in two weeks or less.

The larvae prefer darkness and the larval period can be from 15-80 days. After getting their fill of food and several molting stages, the mature larvae will burrow into materials such as bone, wood, cork, plaster, styrofoam, tin, or into cracks and crevices to create their pupal chambers. The pupal period is approximately two weeks. Adults fly and can live up to 1.5 years.

The black larder beetle has a similar life cycle, but the adults live only two to three months.

### CONTROL & TREATMENT

In the case of an infestation, isolate and bag the infested object or food source. Vacuum surrounding areas thoroughly including cracks and crevices. Larder beetles are particularly prone to inhabit areas of dead cluster flies, so be sure to remove them.

Depending on the infested object, there are a variety of pest management strategies to control infestations. More aggressive methods may have to be taken to control the larvae if they are compromising a building structure. For information regarding pest control methods, please refer to the resources on the museumpests.net website.

## **Fact Sheet: Larder Beetle**

Larva image taken by Patrick Kelley, Insects Limited, Inc.

Adult image taken by Patrick Kelley, Insects Limited, Inc.