



**Florida State University
Laboratory Animal Resources**

Cleaning and Disinfection of the Micro- and Macro- Environment

| Micro-environment | | | |
|--|----------------------------------|--------------------------------------|---|
| Area | Washing/Sanitizing Method | Washing/Sanitizing Frequency | Chemical(s) Used |
| Solid-bottom cages (static)* | Mechanical washer | Minimally weekly | Non-chlorinated alkaline detergent; phosphoric acid detergent |
| Solid-bottom cages (IVC) * | Mechanical washer | Biweekly | Non-chlorinated alkaline detergent |
| Cage lids* | Mechanical washer | Biweekly | Non-chlorinated alkaline detergent |
| Filter tops* | Mechanical washer | Biweekly | Non-chlorinated alkaline detergent |
| Cage racks and shelves | Mechanical washer | Semi-annually | Phosphoric acid detergent |
| Feeders* | Mechanical washer | Biweekly | Non-chlorinated alkaline detergent |
| Sipper tubes* | Mechanical washer | Weekly | Dilute bleach; Non-chlorinated alkaline detergent |
| Manipulanda used in environmental enrichment programs* | Mechanical washer | Biweekly | Non-chlorinated alkaline detergent |
| Transport totes | Handwashing | After each use | Hydrogen Peroxide; Quaternary ammonium chloride |
| Euthanasia chambers | Hand cleaning | After each use | Hydrogen Peroxide; Quaternary ammonium chloride |
| Aquatic tanks (freshwater) | Hand cleaning | Weekly, monthly or end of experiment | Dilute bleach |
| Aquatic tanks (saltwater) | Hand cleaning | At end of experiment | Freshwater |

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| Snake cages | Hand cleaning | Every 7-10 days | Dish soap; Dilute bleach |
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| Snake water bowls | Hand cleaning | Every 7-10 days | Dish soap, Dilute bleach |
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| Reptile racks | Hand cleaning | As needed | Not applicable |
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Marco-environment

Animal Housing Rooms:

| Area | Washing/Sanitizing Method | Washing/Sanitizing Frequency | Chemical(s) Used* |
|----------------------|---------------------------|------------------------------|---|
| Floors, reptile | Sweeping/Mopping | Swept daily, mopped weekly | Quaternary ammonium chloride |
| Walls | Hand cleaning | When emptied | Quaternary ammonium chloride |
| Ceilings | Hand cleaning | When emptied | Quaternary ammonium chloride |
| Ducts/Pipes | Hand cleaning | When emptied | Quaternary ammonium chloride |
| Feed Barrels | Hand cleaning | Semi-annually | Quaternary ammonium chloride |
| Fixtures | Hand cleaning | When emptied | Quaternary ammonium chloride |
| Aquaria nets | Hand cleaning | After each use | Diluted bleach; Benzalkonium chloride + methylene blue; Water |
| Snake handling tools | Hand cleaning | After each use | Dish soap |

Corridors:

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|-------------|------------------|------------------------------|------------------------------|
| Floors | Sweeping/Mopping | Swept daily Mopped weekly | Quaternary ammonium chloride |
| Walls | Dusting | As needed | Not applicable |
| Ceilings | Dusting | As needed | Not applicable |
| Ducts/Pipes | Hand cleaning | As needed | Not applicable |
| Fixtures | Hand cleaning | As needed | Not applicable |

Support Areas:

| | | | |
|-------------|------------------|-------------------------------|------------------------------|
| Floors | Sweeping/Mopping | Swept weekly Mopped weekly | Quaternary ammonium chloride |
| Walls | Hand cleaning | As needed | Not applicable |
| Ceilings | Hand cleaning | As needed | Not applicable |
| Ducts/Pipes | Hand cleaning | As needed | Not applicable |
| Fixtures | Hand cleaning | As needed | Not applicable |

Implements:

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| Mops | Replaced monthly | Not applicable | Not applicable |
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| Dust Mops | Machine washer | Biweekly | Laundry detergent |
| Mop buckets | Mechanical washer | Monthly | Chlorinated alkaline detergent |

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|---------------------------|-------------------|----------------|---|
| Other: | | | |
| Animal transport vehicles | Pressure spraying | Monthly | Quaternary ammonium chloride |
| Utility carts | Mechanical washer | After each use | Non-chlorinated alkaline detergent; Quaternary ammonium chloride |

| Chemical(s) Used | Chemical Trade Name |
|------------------------------------|---------------------|
| Non-Chlorinated alkaline detergent | Alka-Det HW |
| Phosphoric acid detergent | Acid Power |
| Hydrogen Peroxide | Peroxigard |
| Quaternary ammonium chloride | Quatricide PV |
| Sodium hypochlorite | Bleach |

*Sanitation effectiveness is assessed through water temperature monitoring, visual inspection, and microbiological monitoring. Temperature recording labels are used in at least 1 cage wash cycle daily. Used labels are archived in a logbook. Cage wash personnel visually inspect sanitized caging, implements, and accessories to ensure gross debris is removed. Environmental monitoring of processed materials (cage bottoms, cage lids, wire bar lids, water bottles, sipper tubes, and enrichment devices) is performed monthly using a commercially available rapid ATP hygiene test.

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