

Plant Biosafety Level 2 Checklist

PI's Name: _____ Date: _____ Bldg./Rms: _____

Standard Practices

| | Yes | No |
|--|--------------------------|--------------------------|
| 1. Access to the greenhouse is limited or restricted, at the discretion of the Greenhouse Director, when experiments are in progress. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Prior to entering the greenhouse, personnel are required to read and follow instructions on BSL2-P greenhouse practices and procedures. All procedures are performed in accordance with accepted greenhouse practices that are appropriate to the experimental organism. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. A record is kept of experimental plants, microorganisms, or small animals that are brought into or removed from the greenhouse facility. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. A record is kept of experiments currently in progress in the greenhouse facility. | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. The Principal Investigator reports any greenhouse accident involving the inadvertent release or spill of microorganisms to the Greenhouse Director, Institutional Biosafety Committee, NIH/OBA and other appropriate authorities immediately (if applicable). Reports to the NIH/OBA shall be sent to the Office of Biotechnology Activities, National Institutes of Health, 6705 Rockledge Drive, Suite 750, MSC 7985, Bethesda, MD 20892-7985 (20817 for non-USPS mail), 301-496-9838, 301-496-9839 (fax). Documentation of any such accident is prepared and maintained. | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Experimental organisms are rendered biologically inactive by appropriate methods before disposal outside of the greenhouse facility. | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Decontamination of run-off water is not necessarily required. If part of the greenhouse is composed of gravel or similar material, appropriate treatments should be made periodically to eliminate, or render inactive, any organisms potentially entrapped by gravel. | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. A program is implemented to control undesired species (i.e. weed, rodent, or arthropod pests and pathogens), by methods appropriate to the organisms and in accordance with applicable state and Federal laws. | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Arthropods and other motile macroorganisms are housed in appropriate cages. If macroorganisms (i.e. flying arthropods or nematodes) are released within the greenhouse, precautions are taken to minimize escape from the greenhouse facility. | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Experiments involving other organisms that require a containment level lower than BSL2-P are conducted in the greenhouse concurrently with experiments that require BSL2-P containment provided that all work is conducted in accordance with BSL2-P practices. | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. A sign is posted to indicate that a restricted experiment is in progress. The sign indicates: 1) the name of the responsible individual, 2) the plants in use, and 3) any special requirements for using the area. | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. If organisms that have a recognized potential for causing serious detrimental impacts on managed or natural ecosystems are used, their presence is indicated on a sign posted on the greenhouse access doors. | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. If there is a risk to human health, a sign incorporating the universal biosafety symbol is posted. | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Materials containing experimental microorganisms, which are brought into or removed from the greenhouse facility in a viable or intact state, are transferred in a closed non-breakable container. | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. A greenhouse practices manual is prepared or adopted. The manual should: 1) advise personnel of the potential consequences if such practices are not followed, and 2) outline contingency plans to be implemented in the event of an unintentional release of organisms. | <input type="checkbox"/> | <input type="checkbox"/> |

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Facilities

- | | Yes | No |
|---|--------------------------|--------------------------|
| 16. The term "greenhouse" refers to a structure with walls, a roof, and a floor designed and used principally for growing plants in a controlled and protected environment. The walls and roof are usually constructed of transparent or translucent material to allow passage of sunlight for plant growth. | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. The term "greenhouse facility" includes the actual greenhouse rooms or compartments for growing plants, including all immediately contiguous hallways and head-house areas and is considered part of the confinement area. | <input type="checkbox"/> | <input type="checkbox"/> |
| 18. The greenhouse floor is composed of an impervious material. Concrete is recommended, but gravel or other porous material under benches is acceptable unless propagules of experimental organisms are readily disseminated through soil. Soil beds are acceptable unless propagules of experimental organisms are readily disseminated through soil. | <input type="checkbox"/> | <input type="checkbox"/> |
| 19. Windows and other openings in the walls and roof of the greenhouse facility may be open for ventilation as needed for proper operation and do not require any special barrier to contain or exclude pollen, microorganisms; however, screens are required to exclude small flying animals (e.g. arthropods and birds). | <input type="checkbox"/> | <input type="checkbox"/> |
| 20. An autoclave is available for the treatment of contaminated greenhouse materials. | <input type="checkbox"/> | <input type="checkbox"/> |
| 21. If intake fans are used, measures are taken to minimize the ingress of arthropods. Louvers or fans are constructed such that they can only be opened when the fan is in operation. | <input type="checkbox"/> | <input type="checkbox"/> |
| 22. If using a growth chamber or growth room within a building, the external physical structure limits access and escape of microorganisms and macroorganisms in a manner that satisfies the intent of the foregoing clauses. This is required to satisfy BSL-2P greenhouse containment requirements. | <input type="checkbox"/> | <input type="checkbox"/> |