

Date of Survey:		Conducted By:
Building:	Room Number:	Department:
Principal Investigator:		Phone Number:
Email Address:		
Responsible Person (<i>other than PI</i>):		
Phone Number:	-	Email Address:
NOTES: • Completion of annual labor	atory self-ins	spection will assist us to be compliant for CDC, NIH, OSI

and EPA

• All forms or guidelines are available on the EHSO website, www.ehso.emory.edu

Instructions:

- Complete this form manually while inspecting the lab.
- File the completed Lab Self-Inspection Form in the Lab Safety Binder.
- Complete a CAPS Form for each lab space, including cold, tissue culture and equipment room.
- Email CAPS Form to biosafe@emory.edu.

ltem #	Item	Yes	No	СТІ	N/A	Comments CTI = Corrected at Time of Inspection
	SECTION A: GENERAL LAB SAF	ETY				
1.0	SIGNAGE					
	Laboratory Entry: Core Signage			-		
1.1	The laboratory door(s) are posted with the current EHSO issued signage and display up-to-date emergency contact information.					
2.0	DOCUMENTATION & TRAINING					
	Documentation					
2.1	All personnel know how to access the Environmental Health and Safety Office (EHSO) website.					
2.2	All personnel know how to access Emory University's Bloodborne Pathogen Exposure Control Plan on the EHSO website.					
2.3	All personnel know how to access Emory University's Biosafety Manual on the EHSO website.					
2.4	All personnel know how to access Emory University's Biosafety Level 3 Manual on the EHSO website.					
2.5	All personnel know how to access Emory University's Chemical Hygiene Plan on the EHSO website.					

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						Inspection
2.6	All personnel know how to access Safety Data Sheets from					
	the manufacturers' sites and/or from the EHSO webpage					
	(both sources are available 24/7).					
2.7	An up-to-date Chemical Inventory is available inside each					
0.0	laboratory.					
2.8	All personnel have read and understand their BSL-3 Facility					
2.9	Specific SOPs. Facility specific emergency plans are available and up-to-					
2.9	date.					
2.10	Entry/Exit records have been maintained are available for					
2.10	review.					
2.11	Visitor checklists have been maintained are available for					
	review.					
2.12	Weekly inspections have been conducted and are available					
	for review.					
2.13	If Select Agents are present in the lab, are they registered					
	with EHSO? (<u>www.cdc.gov/od/sap</u>)					
	Training	•		1		
2.14	All personnel have taken the Laboratory Safety Training					
0.45	course within the past year and documentation is available.					
2.15	All personnel have attended Radiation Safety Training					
0.40	within the past 3 years (<i>Radiation labs only</i>).					
2.16	All personnel have read and signed the <i>Lab Rat</i> newsletter, which is kept in the safety binder provided by EHSO.					
2.17	All personnel who work with human blood, bodily fluids,					
2.17	tissues, cell lines, etc. have completed the Blood Borne					
	Pathogens training within the last year and documentation					
	is available (this training is independent of Laboratory					
	Safety Training).					
2.18						
	Registration Form for volunteers and have completed					
	Laboratory Safety Training.					
2.19	All BSL-3 training documents are up to date and available					
	for review.					
2.20	Shipping Training If your lab ships biological/infectious agents or dry ice, has	1				
2.20	an individual from the lab taken Compliance Training for					
	Shipping Infectious and Biological Substances with the past					
	2 years?					
2.21	If yes, please list the name of the trained person and the					
	last training date below:					
	Name:					
	Date:					
3.0	CHEMICAL SAFETY					
	Chemical Storage					
3.1	All chemicals are labeled with the full chemical name					
2.0	(Example: Ethyl alcohol - not ETOH).					
3.2 3.3	All chemical container labels are in English and are legible.					
3.3	Chemical containers are in good condition (i.e. completely intact and clean on the outside).					
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Item #	Item	Yes	No	СТІ	N/A	Comments CT/ =
"						Corrected at Time of Inspection
3.4	Legacy / obsolete chemicals (inherited, unused for 10+					-
	years, obvious container deterioration) are collected and					
	given to EHSO for disposal.					
3.5	Chemicals are stored by compatibility (i.e. flammables and					
	oxidizers are separated, acids and bases are separated,					
3.6	etc).					
3.0	Mineral acids are stored separately from organic acids. Perchloric acid is stored separately from all other materials.					
3.8	Chemicals are stored in appropriate locations (i.e.					
0.0	flammables are in a flammables cabinet, corrosives are in a					
	corrosives cabinet, etc.).					
3.9	Corrosives are stored in a secondary container (Example:					
	polypropylene bin).					
3.10	Shelves, cabinets, and counter tops are stable and not					
	overloaded, and containers are placed on shelves in a safe					
	manner.					
3.11	Chemicals are not stored on the floor.					
3.12	Chemicals are stored in such a way as to prevent release					
	to the environment (stored away from sink drains;					
	containers are tightly capped).					
0.40	Flammable Liquids Storage	[1	1	
3.13	Flammables stored are in an approved flammable liquids					
3.14	cabinet. (<i>Contact EHSO with questions.</i>) Volume of flammable liquids outside the cabinet does not					
5.14	exceed 16 liters/100 ft ² of lab space.					
3.15	Volatile liquids are stored in an explosion-proof refrigerator					
0.110	when required.					
3.16	Aerosol cans are kept away from heat and ignition sources.					
	Special Chemical Hazards					
3.17	Acetyl cholinesterase inhibitors are stored securely and in					
	compatibility groups.					
3.18	Pyrophoric compounds are stored by compatibility groups.					
3.19						
	groups. For those compounds that require underwater					
	storage (reactive when dry), periodic inspections of the					
2.00	material are conducted.					
3.20	Unstable materials, cryogens, and water-reactive materials					
3.21	are handled properly. Carcinogens, teratogens, mutagens are stored securely					
5.21	and in compatibility groups.					
3.22	Written procedures are in place for the use of acutely					
0.22	hazardous chemicals (i.e. carcinogens, reproductive					
	hazards, highly toxic substances, etc).					
3.23	Laboratory personnel know the peroxide-forming chemicals					
	used in the lab.					
3.24	Peroxide-forming chemicals are labeled with the date					
	received and the expiration date.					
3.25	Containers of peroxide-forming chemicals are disposed of					
	properly through EHSO (<i>immediately notify EHSO</i>).					
0.00	Mercury					
3.26	Alternatives to mercury are used, if possible.					

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3.27	All mercury thermometers have been replaced with					
	mercury-free thermometers.					
3.28	Mercury containing devices still in use are intact and are					
	not leaking. Mercury leaks or spills are reported to EHSO immediately.					
3.29	Unused mercury containing devices (thermometers,					
3.29	thermostats, etc) are disposed of through EHSO.					
	DEA Controlled Substances		I			
3.30	Federal DEA License is available.					
3.31	State of Georgia Board of Pharmacy License is available.					
3.32	DEA-regulated items are secured in a locked container.					
3.33	Lab has proper record keeping of stock, usage, and					
	disposal.					
3.34	Expired drugs are disposed of properly.					
	Compressed Gas Cylinders	I	1	I	-	
3.35	Gas cylinders are tagged as empty or full.					
3.36	Gas cylinders are labeled as to their contents.					
3.37	Cylinders are secured to a stationary surface by a chain					
2.20	link or strap.					
3.38	Gas cylinders are stored upright. Gas cylinders are capped when not in use and have a					
3.39	pressure regulator when in use.					
3.40	Lecture bottles have been replaced with the appropriate					
0110	cylinders.					
4.0	LABORATORY WASTE DISPOSAL					
	Chemical Waste					
	Note: For more details regarding this section, review the Che					
4.1	<i>document at <u>http://www.ehso.emory.edu/content-guidelines/</u> EHSO picks up all chemical waste from the facility.</i>	Guideil	nesion		arvas	leDisposal.pul
4.1	Chemicals are not put down the drain, in the regular trash,					
7.2	or in biomedical waste.					
4.3	All chemical waste containers are labeled with EHSO					
	Chemical Waste Labels.					
4.4	All chemical / chemical waste containers are closed except					
	when in use.					
4.5	Chemical wastes are compatible with their containers and					
	are stored by compatibility (i.e. acid waste is not stored with					
	alkaline waste).					
4.6	EHSO picks up all empty P-listed chemical containers from					
47	the facility.					
4.7	EHSO picks up expired pharmaceutical wastes (excluding DEA controlled substances) from the facility.					
	Biological Waste					
4.8	Biomedical waste containers are labeled with the Biohazard					
	symbol and the word "Biohazard".					
4.9	An orange / red Biohazard bag is used to dispose of					
	biohazardous waste.					
4.10	Biohazard waste containers are closed except when adding					
	waste.					
4.11						

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4.13	Facility-specific SOPs for the treatment and removal of					
	biohazard waste from the facility are available and adhered to.					
	Infectious Waste Manifests from Stericycle are maintained					
	and made available upon request.					
I	Sharps Handling & Waste	<u> </u>				
4.15	Sharps are disposed of in a sharps disposal container and					
	the containers are no greater than ³ / ₄ full.					
	Sharps containers are tightly lidded to prevent the contents					
	from spilling. Radioactive Waste					
4.17	EHSO picks up radioactive waste for disposal.	1		1		
4.17	Other Waste					
4.18	EHSO picks up batteries (other than alkaline) for disposal.	[[
	EHSO picks up lamps (fluorescent, incandescent, halogen,					
	UV, etc) for disposal.					
4.20	Aerosol cans are given to EHSO for disposal.					
	Autoclave Use					
	A facility specific SOP for autoclave validation is available and adhered to.					
	Documentation of autoclave validation is maintained and made available upon request.					
	Autoclaves are validated at least weekly.					
	HOUSEKEEPING / WORK PRACTICES					
5.1	Sinks are equipped with soap and paper towels.					
	Sinks are free of foreign matter that could cause drain stoppage.					
5.3	There is no storage of chemicals under sinks, except for cleaning products.					
	Lighting is adequate for work conducted.					
	Lab refrigerators and freezers are labeled "NO FOOD OR					
	DRINK ALLOWED".					
5.6						
5.6 5.7	DRINK ALLOWED". Lab microwaves are labeled "NO FOOD OR DRINK ALLOWED". Trip hazards (equipment on floor, cardboard boxes, electrical cords, etc.) are not present.					
5.6 5.7 5.8	DRINK ALLOWED". Lab microwaves are labeled "NO FOOD OR DRINK ALLOWED". Trip hazards (equipment on floor, cardboard boxes, electrical cords, etc.) are not present. All personnel are aware that they should not work alone with hazardous materials unless they notify a co-worker					
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6.3	Intake and rear grilles are clear of obstructions.					
6.4	Bunsen burners and/or open flames are not used in					
	biological safety cabinets (Open flames are not permitted					
	inside BSCs; consider an alternative, such as an electrical					
6 F	bacticinerator).					
6.5 6.6	No items are stored on top of the BSC. Work surfaces are clean and free of visible biological					
0.0	residue.					
6.7	The sash alarm is not muted.					
0.7	Chemical Fume Hoods					
6.8	Solvents are NOT evaporated in the fume hood.			1		
0.0	(For rinsates and empty chemical containers, refer to the					
	Chemical Waste Disposal Guidelines at					
	http://www.ehso.emory.edu/content-					
	guidelines/GuidelinesforChemicalWasteDisposal.pdf).					
6.9	All chemical fume hoods have been certified within the last					
	12 months by EHSO.					
6.10	The certification label is attached and initialed by EHSO.					
6.11	Fume hood air-flow is not compromised by storage or					
	equipment.					
6.12	The fume hood is free of material and equipment stored					
	long term.					
6.13	Equipment outside the hood does not inhibit airflow.					
6.14	The work surfaces are clean and free of obvious chemical					
	residue.					
6.15	Vented storage areas under the hood are free of spilled					
0.40	chemicals or solvents.					
6.16	The sash position is correct. (The sash is at 18 inches or less when in use and closed when not in use.)					
6.17	Tubes, hoses, and cables are routed through transfer /					
0.17	access ports or other openings that will not inhibit proper					
	sash closer and operation.					
6.18	There are no cracks or chips in the sash glass.					
6.19	Hood alarms are not muted.					
6.20	Appropriate visual monitor is present to determine fume					
_	hood function.					
7.0	PERSONAL PROTECTIVE EQUIPMENT (PPE)					
7.1	Facility specific SOPs for Entry/Donning of PPE and					
	Exit/Doffing of PPE are available and adhered to.					
7.2	Reusable PPE is autoclaved out of the facility prior to		_			
	laundry by an Emory approved vendor.					
7.3	Non-reusable PPE is disposed of as biological waste.					
7.4	All personnel know how to access and use glove guides via					
	the EHSO website.					
7.5	Gloves are appropriate for the hazards and worn when					
	needed (for guidance, review the Glove Guides at					
76	<u>http://ehso.emory.edu/resources/index.html</u>).					
7.6	Safety glasses with side protection meeting ANSI Z87.1 are available and worn when appropriate.					
7.7	Goggles are available and used when there is potential for					
1.1	splashes and spatters.					
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Item	Item	Yes	No	CTI	N/A	Comments
#				•		CTI =
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						Time of
						Inspection
7.8	Face shields are available and used when needed.					
7.9	Lab coats are available for use.					
7.10	Lab coats or other appropriate protective clothing are worn					
	while working (Examples: shoe covers, surgical masks, gowns).					
7.11	Appropriate clothing is worn to minimize exposure to					
/	hazardous materials.					
7.12	Closed toed shoes are worn in all times when working in					
	the lab.					
	Hearing Protection		r	r		
7.13	Hearing protection is worn where and when appropriate.					
	For additional guidance, access the following link:					
	http://www.ehso.emory.edu/content-					
7.14	manuals/SAF_366HearingConservationProgram.pdf					
7.14	Noise Training is current for those who use it. Respirators					
7.15	Type of respirator required:					
1.10	 Disposable Particulate (N-95) 					
	 Cartridge respirator (half or full face) 					
	 Powered air purifying respirator 					
7.16	If personnel are wearing respirators voluntarily, they have					
	read and understand 'Information for Employees Using					
	Respirators When not Required Under Standard', Appendix					
	D (refer to					
	https://www.osha.gov/pls/oshaweb/owadisp.show_docume					
7 4 7	nt?p_table=STANDARDS&p_id=9784))					
7.17	Medical clearance for respirator use is renewed annually.					
7.10	Fit testing / training is renewed annually. Respirators are regularly cleaned, disinfected, inspected,					
7.15	and stored appropriately.					
8.0	EMERGENCY PROCEDURES					
8.1	The Emory University "Just in Time – Guide to Campus					
	Emergencies" has been posted in the lab.					
8.2	Personnel in the lab know how to report accidents and					
	injuries.					
8.3	Laboratory personnel have a Non-human primate card if					
0.1	working with NHP tissue, fluids, etc.					
8.4	Facility specific SOPs are in place for emergencies. All					
	personnel working in the facility understand the emergency plans and are prepared to act in case of an emergency.					
	Eyewashes and Showers					
8.5	A double ocular hands free eyewash is available in the lab.	1				
0.0	NOTE : a single ocular drench hose is not sufficient for eye					
	wash.					
8.6	The eyewash in the lab is tested and documented monthly					
	by lab personnel.					
8.7	There is an Emergency Eyewash sign near the eyewash.					
8.8	The eyewash is free of obstruction.					
8.9	The eyewash protective caps are in place.					
8.10	A safety shower is available.					
8.11	The safety shower is free of obstruction.					

# Spill Response Corrocted at Time of Inspection 8.12 The lab is equipped with a biological spill kit. Image: Corrocted at Time of Inspection 8.13 Spill procedures are in place and lab personnel are trained to clean up materials in the quantities they normally work with. Image: Corroct type of fire extinguisher is available for the class of fire possible in the area. 9.0 FIRE SAFETY Image: Corroct type of fire extinguisher education or training by either: (1) Attending hands-on training from the Emory Fire Safety Office (2) Viewing a Fire Extinguisher Training video. or (3) Reading Fire Extinguisher Training video. or (3) Reading Fire Extinguisher Training video. or (3) Reading Fire Extinguisher is in the proper location and not correct type of the extinguisher was completed by the outside contractor on	Item	Item	Yes	No	CTI	N/A	Comments
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						Corrected at Time of
						Inspection
11.3	There is proper labeling of radiation areas.					
12.0	LASER SAFETY					
12.1	Class 3B and/or Class 4 lasers are operated in the					
	laboratory (refer EHSO website for criteria for Class 3B					
10.0	and Class 4 lasers - pg. 2 of Laser Registration Form)					
12.2	All Class 3B and/or Class 4 lasers have been registered with EHSO.					
13.0	ANIMAL USE					
	Perfusion Experiments					
13.1	If you perform perfusion experiments (i.e., formaldehyde),					
	have lab personnel been monitored for formaldehyde					
	exposure? Refer to the Formaldehyde Questionnaire Form.					
	Isofluorane	1		1	· · · · ·	
13.2	If you use isofluorane and have an isofluorane vaporizer in					
	the facility, when was the vaporizer last certified? Make					
	sure to list this date on your corrective action form:					
	SECTION B: BIOSAFETY					
*	These questions are based on the Biosafety Level 3 section Biomedical Laboratories, 5 th Edition, pages 38-45	of <u>Bios</u>	afety ir	<u>n Micro</u>	biologia	<u>cal and</u>
1.0	STANDARD MICROBIOLOGICAL PRACTICES					
1.1	The laboratory supervisor enforces the institutional policies					
	that control access to the laboratory.					
1.2	Persons wash their hands after working with potentially					
1.0	hazardous materials and before leaving the laboratory					
1.3	Eating, drinking, smoking, handling contact lenses, applying cosmetics, and storing food for human					
	consumption are not be permitted in laboratory areas. Food					
	is stored outside the laboratory area in cabinets or					
	refrigerators designated and used for this purpose.					
1.4	Mouth pipetting is prohibited; mechanical pipetting devices					
	are used.					
1.5	Policies for the safe handling of sharps, such as needles,					
	scalpels, pipettes, and broken glassware are developed and implemented. Whenever practical, laboratory					
	supervisors adopt improved engineering and work practice					
	controls that reduce risk of sharps injuries.					
1.6	Careful management of needles and other sharps are of					
	primary importance. Needles are not bent, sheared,					
	broken, recapped, removed from disposable syringes, or					
	otherwise manipulated by hand before disposal.					
1.7	Used disposable needles and syringes are carefully placed					
	in conveniently located puncture-resistant containers used					
1.8	for sharps disposal. Non-disposable sharps are placed in a hard walled					
1.0	container for transport to a processing area for					
	decontamination, preferably by autoclaving.					
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Item	Item	Yes	No	CTI	N/A	Comments
#						CTI =
						Corrected at Time of
						Inspection
2.3	A laboratory-specific biosafety manual is prepared and					
	adopted as policy. The biosafety manual is available and					
0.4	accessible.					
2.4	The laboratory supervisor ensures that laboratory personnel demonstrate proficiency in standard and special					
	microbiological practices before working with BSL-3 agents.					
2.5	Potentially infectious materials are placed in a durable, leak					
	proof container during collection, handling, processing,					
	storage, or transport within a facility.					
2.6	Laboratory equipment is routinely decontaminated, as well					
0.7	as, after spills, splashes, or other potential contamination.					
2.7	Spills involving infectious materials are contained, decontaminated, and cleaned up by staff properly trained					
	and equipped to work with infectious material.					
2.8	Equipment is decontaminated before repair, maintenance,					
	or removal from the laboratory.					
2.9	Incidents that may result in exposure to infectious materials					
	are immediately evaluated and treated according to					
	procedures described in the laboratory biosafety manual.					
	All such incidents are reported to the laboratory supervisor. Medical evaluation, surveillance, and treatment are					
	provided and appropriate records maintained.					
2.10	Animals and plants not associated with the work being					
_	performed are not in the laboratory.					
2.11	All procedures involving the manipulation of infectious					
	materials are conducted within a BSC, or other physical					
	containment devices. No work with open vessels is					
	conducted on the bench. When a procedure cannot be					
	performed within a BSC, a combination of personal protective equipment and other containment devices, such					
	as a centrifuge safety cup or sealed rotor are used.					
3.0	SAFETY EQUIPMENT (PRIMARY BARRIERS AND PPE)					
3.1	All procedures involving the manipulation of infectious					
	materials is conducted within a BSC (preferably Class II or					
	Class III), or other physical containment devices.					
3.2	Workers in the laboratory where protective laboratory					
	clothing with a solid-front, such as tie-back or wrap-around gowns, scrub suits, or coveralls. Protective clothing is not					
	worn outside of the laboratory. Reusable clothing is					
	decontaminated before being laundered. Clothing is					
	changed when contaminated.					
3.3	Eye and face protection (goggles, mask, face shield or					
	other splash guard) is used for anticipated splashes or					
	sprays of infectious or other hazardous materials. Eye and					
	face protection is disposed of with other contaminated					
	laboratory waste or decontaminated before reuse. Persons who wear contact lenses in laboratories also wear eye					
	protection.					
3.4	Gloves are worn to protect hands from exposure to					
	hazardous materials. Glove selection is based on an					

ltem #	Item	Yes	No	СТІ	N/A	Comments CTI = Corrected at Time of Inspection
	appropriate risk assessment. Alternatives to latex gloves					
3.5	are available. Gloves are not worn outside the laboratory. BSL-3 workers change gloves when contaminated, glove integrity is compromised, or when otherwise necessary. They also wear two pairs of gloves when appropriate					
3.6	Remove gloves and wash hands when work with hazardous materials has been completed and before leaving the laboratory.					
3.7	Do not wash or reuse disposable gloves. Dispose of used gloves with other contaminated laboratory waste. Hand washing protocols are rigorously followed					
3.8	Eye, face, and respiratory protection are used in rooms containing infected animals.					
4.0	LABORATORY FACILITIES (SECONDARY BARRIERS)					
4.1	Laboratory doors are self-closing and have locks in accordance with the institutional policies. The laboratory is separated from areas that are open to unrestricted traffic flow within the building. Laboratory access is restricted. Access to the laboratory is through two self-closing doors. A clothing change room (anteroom) may be included in the passageway between the two self-closing doors					
4.2	Laboratories have a sink for hand washing. The sink is hands-free or automatically operated. It is located near the exit door. If the laboratory is segregated into different laboratories, a sink is also available for hand washing in each zone. Additional sinks may be required as determined by the risk assessment					
4.3	The laboratory is designed so that it can be easily cleaned and decontaminated. Carpets and rugs are not permitted. Seams, floors, walls, and ceiling surfaces are sealed. Spaces around doors and ventilation openings are capable of being sealed to facilitate space decontamination.					
4.4	Floors are slip resistant, impervious to liquids, and resistant to chemicals. Consideration is given to the installation of seamless, sealed, resilient or poured floors, with integral cove bases.					
4.5	Walls are constructed to produce a sealed smooth finish that can be easily cleaned and decontaminated.					
4.6	Ceilings are constructed, sealed, and finished in the same general manner as walls.					
4.7	Decontamination of the entire laboratory is considered when there has been gross contamination of the space, significant changes in laboratory usage, for major renovations, or maintenance shut downs. Selection of the appropriate materials and methods is used to decontaminate the laboratory must be based on the risk assessment. Laboratory furniture is capable of supporting anticipated					
U	loads and uses. Spaces between benches, cabinets, and equipment are accessible for cleaning.					

ltem #	Item	Yes	Νο	СТІ	N/A	Comments CTI = Corrected at Time of Inspection
4.9	Bench tops are impervious to water and resistant to heat, organic solvents, acids, alkalis, and other chemicals.					
4.10	Chairs used in laboratory work are covered with a non- porous material that can be easily cleaned and decontaminated with appropriate disinfectant.					
4.11	All windows in the laboratory are sealed.					
4.12	BSCs are installed so that fluctuations of the room air supply and exhaust do not interfere with proper operations. BSCs are located away from doors, heavily traveled laboratory areas, and other possible airflow disruptions.					
4.13	Vacuum lines are protected with HEPA filters, or their equivalent. Filters are replaced as needed. Liquid disinfectant traps may be required.					
4.14	An eyewash station is readily available in the laboratory.					
4.15	A ducted air ventilation system is required. This system provides sustained directional airflow by drawing air into the laboratory from "clean" areas toward "potentially contaminated" areas. The laboratory is designed such that under failure conditions the airflow will not be reversed.					
4.16	Laboratory personnel are able to verify directional airflow. A visual monitoring device, which confirms directional airflow, is provided at the laboratory entry. Audible alarms are considered to notify personnel of air flow disruption.					
4.17	The laboratory exhaust air does not re-circulate to any other area of the building.					
4.18	The laboratory building exhaust air is dispersed away from occupied areas and from building air intake locations or the exhaust air is HEPA filtered.					
4.19	HEPA filter housings have gas-tight isolation dampers, decontamination ports, and/or bag-in/bag-out (with appropriate decontamination procedures) capability. The HEPA filter housing allows for leak testing of each filter and assembly. The filters and the housing are certified at least annually.					
4.20	HEPA filtered exhaust air from a Class II BSC can be safely re-circulated into the laboratory environment if the cabinet is tested and certified at least annually and operated according to manufacturer's recommendations. BSCs can also be connected to the laboratory exhaust system by either a thimble (canopy) connection or directly exhausted to the outside through a hard connection. Provisions to assure proper safety cabinet performance and air system operation are verified. BSCs are certified at least annually to assure correct performance. Class III BSCs are directly (hard) connected up through the second exhaust HEPA filter of the cabinet. Supply air is provided in such a manner that prevents positive pressurization of the cabinet.					
4.21	A method for decontaminating all laboratory wastes is available in the facility, preferably within the laboratory (e.g., autoclave, chemical disinfection, or other validated decontamination method).					

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4.22	Equipment that may produce infectious aerosols is					
	contained in primary barrier devices that exhaust air					
	through HEPA filtration or other equivalent technology					
	before being discharged into the laboratory. These HEPA					
4.00	filters are tested and/or replaced at least annually.					
4.23	Enhanced environmental and personal protection may be required by the agent summary statement, risk					
	assessment, or applicable local, state, or federal					
	regulations. These laboratory enhancements may include,					
	for example, one or more of the following: an anteroom for					
	clean storage of equipment and supplies with dress-in,					
	shower-out capabilities; gas tight dampers to facilitate					
	laboratory isolation; final HEPA filtration of the laboratory					
	exhaust air; laboratory effluent decontamination; and					
1.0.1	advanced access control devices, such as biometrics.					
4.24	The BSL-3 facility design, operational parameters, and					
	procedures are verified and documented prior to operation. Facilities are re-verified and documented at least annually.					
	SECTION C: RECOMBINANT DNA – NIH (NES			
*	The questions in this section are based on Appendix G-II-C:			el 3 (B	L3) in t	he May 2011
	publication of the NIH Guidelines for Research Involving Rec					
*	This section applies to BSL-3 facilities that are conducting red	combin	ant DN	VA rese	earch.	
1.0	STANDARD MICROBIOLOGICAL PRACTICES					
1.1	Work surfaces are decontaminated at least once a day and after any spill of viable material.					
1.2	All contaminated liquid or solid wastes are decontaminated					
1.2	before disposal.					
1.3	Mechanical pipetting devices are used; mouth pipetting is					
	prohibited.					
1.4						
1 .	Eating, drinking, smoking, storing food, and applying					
	Eating, drinking, smoking, storing food, and applying cosmetics are not permitted in the work area.					
1.5	Eating, drinking, smoking, storing food, and applying cosmetics are not permitted in the work area. Persons wash their hands after handling materials involving					
	Eating, drinking, smoking, storing food, and applying cosmetics are not permitted in the work area. Persons wash their hands after handling materials involving organisms containing recombinant DNA molecules and					
1.5	Eating, drinking, smoking, storing food, and applying cosmetics are not permitted in the work area. Persons wash their hands after handling materials involving organisms containing recombinant DNA molecules and handling animals, and when exiting the laboratory.					
	Eating, drinking, smoking, storing food, and applying cosmetics are not permitted in the work area. Persons wash their hands after handling materials involving organisms containing recombinant DNA molecules and handling animals, and when exiting the laboratory. All procedures are performed carefully to minimize the					
1.5	Eating, drinking, smoking, storing food, and applying cosmetics are not permitted in the work area. Persons wash their hands after handling materials involving organisms containing recombinant DNA molecules and handling animals, and when exiting the laboratory. All procedures are performed carefully to minimize the creation of aerosols.					
1.5	Eating, drinking, smoking, storing food, and applying cosmetics are not permitted in the work area. Persons wash their hands after handling materials involving organisms containing recombinant DNA molecules and handling animals, and when exiting the laboratory. All procedures are performed carefully to minimize the creation of aerosols. Persons under 16 years of age are prohibited from entering the laboratory.					
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1.5 1.6 1.7 1.8	Eating, drinking, smoking, storing food, and applying cosmetics are not permitted in the work area. Persons wash their hands after handling materials involving organisms containing recombinant DNA molecules and handling animals, and when exiting the laboratory. All procedures are performed carefully to minimize the creation of aerosols. Persons under 16 years of age are prohibited from entering the laboratory. If experiments involving other organisms which require lower levels of containment are to be conducted in the same laboratory concurrently with experiments requiring BL3 level physical containment, are conducted in accordance with all BL3 level laboratory practices.					
1.5 1.6 1.7 1.8 2.0	Eating, drinking, smoking, storing food, and applying cosmetics are not permitted in the work area. Persons wash their hands after handling materials involving organisms containing recombinant DNA molecules and handling animals, and when exiting the laboratory. All procedures are performed carefully to minimize the creation of aerosols. Persons under 16 years of age are prohibited from entering the laboratory. If experiments involving other organisms which require lower levels of containment are to be conducted in the same laboratory concurrently with experiments requiring BL3 level physical containment, are conducted in accordance with all BL3 level laboratory practices. SPECIAL PRACTICES					
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1.5 1.6 1.7 1.8 2.0 2.1	Eating, drinking, smoking, storing food, and applying cosmetics are not permitted in the work area. Persons wash their hands after handling materials involving organisms containing recombinant DNA molecules and handling animals, and when exiting the laboratory. All procedures are performed carefully to minimize the creation of aerosols. Persons under 16 years of age are prohibited from entering the laboratory. If experiments involving other organisms which require lower levels of containment are to be conducted in the same laboratory concurrently with experiments requiring BL3 level physical containment, are conducted in accordance with all BL3 level laboratory practices. SPECIAL PRACTICES Laboratory doors are kept closed when experiments are in progress. Contaminated materials that are to be decontaminated at a					

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2.3	The Principal Investigator controls access to the laboratory					
	and restricts access to persons whose presence is required for program or support purposes. The Principal Investigator					
	has the final responsibility for assessing each circumstance					
	and determining who may enter or work in the laboratory.					
2.4	The Principal Investigator establishes policies and					
	procedures whereby only persons who have been advised					
	of the potential biohazard, who meet any specific entry					
	requirements (e.g., immunization), and who comply with all					
	entry and exit procedures entering the laboratory or animal					
2.5	rooms. When organisms containing recombinant DNA molecules					
2.5	or experimental animals are present in the laboratory or					
	containment module, a hazard warning sign incorporating					
	the universal biosafety symbol is posted on all laboratory					
	and animal room access doors. The hazard warning sign					
	identifies the agent, lists the name and telephone number					
	of the Principal Investigator or other responsible person(s),					
	and indicates any special requirements for entering the					
	laboratory such as the need for immunizations, respirators, or other personal protective measures.					
2.6	All activities involving organisms containing recombinant					
2.0	DNA molecules are conducted in biological safety cabinets					
	or other physical containment devices within the					
	containment module. No work in open vessels is conducted					
	on the open bench.					
2.7	The work surfaces of biological safety cabinets and other					
	containment equipment are decontaminated when work with organisms containing recombinant DNA molecules is					
	finished. Plastic-backed paper toweling used on non-					
	perforated work surfaces within biological safety cabinets					
	facilitates clean-up.					
2.8	An insect and rodent program is in effect.					
2.9	Laboratory clothing that protects street clothing (e.g., solid					
	front or wrap-around gowns, scrub suits, coveralls) is worn					
	in the laboratory. Laboratory clothing is not worn outside					
	the laboratory, and it is decontaminated prior to laundering or disposal.					
2.10	Special care is taken to avoid skin contamination with					
	contaminated materials; gloves are worn when handling					
	infected animals and when skin contact with infectious					
	materials is unavoidable.					
2.11	Molded surgical masks or respirators are worn in rooms					
0.10	containing experimental animals.					
2.12	Animals and plants not related to the work being conducted					
2.13	are not permitted in the laboratory. Laboratory animals held in a BL3 area shall be housed in					
2.13	partial-containment caging systems, such as Horsfall units					
	(see <u>Appendix G-III-K</u> , Footnotes and References of					
	Appendix G), open cages placed in ventilated enclosures,					
	solid-wall and -bottom cages covered by filter bonnets or					
	solid-wall and -bottom cages placed on holding racks					

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	equipped with ultraviolet in radiation lamps and reflectors. Conventional caging systems may be used provided that all					
	personnel wear appropriate personal protective devices.					
	These protective devices shall include at a minimum wrap-					
	around gowns, head covers, gloves, shoe covers, and					
	respirators. All personnel shall shower on exit from areas					
0.14	where these devices are required.					
2.14	All wastes from laboratories and animal rooms are appropriately decontaminated before disposal.					
2.15	Vacuum lines are protected with high efficiency particulate					
	air/HEPA filters and liquid disinfectant traps.					
2.16	Hypodermic needles and syringes are used only for					
	parenteral injection and aspiration of fluids from laboratory					
	animals and diaphragm bottles. Only needle locking syringes or disposable syringe-needle units (i.e., needle is					
	integral to the syringe) are used for the injection or					
	aspiration of fluids containing organisms that contain					
	recombinant DNA molecules. Extreme caution is used					
	when handling needles and syringes to avoid					
	autoinoculation and the generation of aerosols during use					
	and disposal. Needles are not be bent, sheared, replaced in the needle sheath or guard, or removed from the syringe					
	following use. The needle and syringe are promptly placed					
	in a puncture-resistant container and decontaminated,					
	preferably by autoclaving, before discard or reuse.					
2.17	Spills and accidents which result in overt or potential					
	exposures to organisms containing recombinant DNA molecules are immediately reported to the Biological Safety					
	Officer, Institutional Biosafety Committee, and NIH/OBA.					
	Reports to 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). Appropriate medical evaluation,					
	surveillance, and treatment are provided and written					
	records are maintained.					
2.18	Baseline serum samples for all laboratory and other at-risk					
	personnel are collected and stored. Additional serum					
	specimens may be collected periodically depending on the agents handled or the function of the laboratory.					
2.19	A biosafety manual is prepared or adopted. Personnel are					
	advised of special hazards and are required to read and					
	follow the instructions on practices and procedures.					
3.0	CONTAINMENT EQUIPMENT					
3.1	Biological safety cabinets (Class I, II, or III) (see <u>Appendix</u> <u>G-III-L</u> , <i>Footnotes and References of Appendix G</i>) or other					
	appropriate combinations of personal protective or physical					
	containment devices (e.g., special protective clothing,					
	masks, gloves, respirators, centrifuge safety cups, sealed					
	centrifuge rotors, and containment caging for animals) are					
	used for all activities with organisms containing recombinant DNA molecules which pose a threat of aerosol					
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	exposure. These include: manipulation of cultures and of					
	those clinical or environmental materials which may be a					
	source of aerosols; the aerosol challenge of experimental					
	animals; the harvesting of infected tissues or fluids from					
	experimental animals and embryonate eggs; and the					
4.0	necropsy of experimental animals.					
4.0	LABORATORY FACILITIES					
4.1	The laboratory is separated from areas which are open to					
	unrestricted traffic flow within the building. Passage through two sets of doors is the basic requirement for entry into the					
	laboratory from access corridors or other contiguous areas.					
	Physical separation of the high containment laboratory from					
	access corridors or other laboratories or activities may be					
	provided by a double-doored clothes change room					
	(showers may be included), airlock, or other access facility					
	which requires passage through two sets of doors before					
	entering the laboratory.					
4.2	The interior surfaces of walls, floors, and ceilings are water					
	resistant so that they can be easily cleaned. Penetrations in					
	these surfaces are sealed or capable of being sealed to					
	facilitate decontaminating the area.					
4.3	Bench tops are impervious to water and resistant to acids,					
	alkalis, organic solvents, and moderate heat.					
4.4	Laboratory furniture is sturdy and spaces between					
	benches, cabinets, and equipment are accessible for					
	cleaning.					
4.5	Each laboratory contains a sink for hand washing. The sink					
	is foot, elbow, or automatically operated and is located near					
	the laboratory exit door.					
4.6	Windows in the laboratory are closed and sealed.					
4.7	Access doors to the laboratory or containment module are					
	self-closing.					
4.8	An autoclave for decontaminating laboratory wastes is					
1.0	available preferably within the laboratory.					
4.9	A ducted exhaust air ventilation system is provided. This					
	system creates directional airflow that draws air into the					
	laboratory through the entry area. The exhaust air is not					
	recirculated to any other area of the building, is discharged					
	to the outside, and is dispersed away from the occupied areas and air intakes. Personnel shall verify that the					
	direction of the airflow (into the laboratory) is proper. The					
	exhaust air from the laboratory room may be discharged to					
	the outside without being filtered or otherwise treated.					
4.10	The high efficiency particulate air/HEPA filtered exhaust air					
	from Class I or Class II biological safety cabinets is					
	discharged directly to the outside or through the building					
	exhaust system. Exhaust air from Class I or II biological					
	safety cabinets may be recirculated within the laboratory if					
	the cabinet is tested and certified at least every twelve					
	months. If the HEPA-filtered exhaust air from Class I or II					
	biological safety cabinets is to be discharged to the outside					

Item #	Item	Yes	Νο	СТІ	N/A	Comments CTI = Corrected at Time of Inspection
	through the building exhaust air system, it is connected to this system in a manner (e.g., thimble unit connection (see <u>Appendix G-III-L</u> , <i>Footnotes and References of Appendix</i> <i>G</i>)) that avoids any interference with the air balance of the cabinets or building exhaust system.					