

Destruction of Select Agent

Department of Environment, Health & Safety, University of North Carolina at Chapel Hill

Please complete this form when destroying a Select Agent. Before you do so, please contact Environment, Health & Safety to verify the procedure. Destruction of non-exempt registered Select Agents must be reported to the U.S. Centers for Disease Control and Prevention (CDC). Please call if you have any questions.

Principal Investigator:	
Department:	Laboratory location (building, room):
Select Agent Description:	
<p style="text-align: center;">Use</p> <input type="checkbox"/> Research <input type="checkbox"/> Diagnostics <input type="checkbox"/> Production <input type="checkbox"/> Other—please describe:	<p style="text-align: center;">Exemption Status</p> <input type="checkbox"/> 42 CFR 72 Exempt <input type="checkbox"/> 42 CFR 72 Non-exempt <hr/> <p style="text-align: center;">Registration</p> <input type="checkbox"/> 42 CFR 72 Registered <input type="checkbox"/> Not registered
Destruction Procedure (see below or describe alternative procedure and provide reference):	
Destroyed By (Print Name):	Date Destroyed:
Signature of Principal Investigator:	Phone:
After destruction, please dispose of residue via Environment, Health and Safety.	
EHS Form 510 Serial #:	Date of EHS Pickup:

After completion, please forward this form EHS and keep a copy for you records.

UNC Department of Environment, Health & Safety
 212 Finley Golf Course Rd., CB# 1650
 Chapel Hill, NC 27517-4440

http://ehs.unc.edu
 919-843-5913
 Fax: 919-962-0227

EHS Reviewer (Print Name):	Date Reviewed:
Signature of EHS Reviewer:	

Procedures for the Destruction of Select Agents

Safety Precautions:

Destruction procedures should be performed in a laboratory hood or a biological safety cabinet. At a minimum, Personal Protective Equipment for all procedures should include:

- Disposable long-sleeved protective clothing (gown, coverall or similar garment).
- Gloves
- Eye protection
- Mask

Bacteria and viruses: For destruction of bacteria and viruses, use steam sterilization procedures in Chapter 15, Appendix A of the UNC Biological Safety Manual.

Tetrodotoxin, Staphylococcus Enterotoxin B, Ricin, Aflatoxin:

Destruction in 2.5% NaOCl (sodium hypochlorite). Use a fume hood, and lower sash to lowest possible working level. Place a warning/do not use sign on hood during the procedure.

1. In a fume hood, Place plastic backed absorbent paper on bottom of hood
2. The Select Agent should be in solution in primary container
3. Place primary container in secondary container, such as a beaker
4. Slowly dispense an equal volume of full strength bleach into Select Agent solution
5. Do not place cap on primary container
6. Allow 30 minutes exposure time

Staphylococcus Enterotoxin B, Ricin, Botulinum:

Use autoclave for heat destruction.

1. In a fume hood or biological safety cabinet, loosen cap of primary container
2. Place primary container into secondary container, such as a beaker
3. Place container into a biohazard autoclave bag
4. Place bag into autoclavable tray
5. Autoclave at 121 C for 45 minutes on liquid cycle (slow exhaust).
6. After autoclaving, allow time for material to cool before handling.

Disposal

After destruction of the Select Agent, seal the top to the primary container and place into a zip-lock plastic bag. Complete the EHS 510 form for hazardous waste. EHS personnel will collect inactivated Select Agent for incineration.

References:

Morin, R.S., and Kozlovac, J.P. 2000. Biological Select Agents, p. 261-272. In D.O. Fleming, and D. L. Hunt (ed.), *Biological Safety, Principles and Practices*. ASM Press, Washington, D.C.

Slein, M.W., and Sansone, E.B. 1980. *Degradation of Chemical Carcinogens, An Annotated Bibliography*. Van Nostrand Reinhold Company, New York, N.Y.

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