



UNIVERSITY OF OTTAWA - BIOSAFETY PROGRAM RESTRICTION PUBLIC HEALTH AGENCY OF CANADA (PHAC) SECURITY SENSITIVE BIOLOGICAL AGENTS AND TOXINS (SSBA)

The following **toxins cannot be acquired** without prior approval of the Office of Risk Management – Biosafety Officer: bio.safety@uottawa.ca.

Note: Laboratories that work with strains of bacteria that produce SSBA toxins are not captured by the SSBA designation as long as the SSBA toxin is not produced to levels above the trigger quantity. If work with strains of bacteria that produce SSBA toxins results in the production of quantities of SSBA toxins that exceed the SSBA toxin trigger quantities, the work would be subject to the SSBA designation.

Security Sensitive Biological Agents List - Toxins (and trigger quantity)

- Alpha toxin (5 mg)
- Botulinum neurotoxin (0.5 mg)
- Cholera toxin (20 mg)
- Clostridium botulinum C2 and C3 toxins (5 mg)
- Clostridium perfringens Epsilon toxin (5 mg)
- Hemolysin (10 mg)
- Shiga-like toxin (verotoxin) (1 mg)
- Shigatoxin (1mg)
- Staphylococcus enterotoxins, Type B (1 mg)
- Staphylococcus enterotoxins, types other than Type B (10 mg)
- Staphylococcus aureus Toxic shock syndrome toxin (5 mg)

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Security clearances are **mandatory by PHAC** and additional licence requirements are necessary.

Security Sensitive Biological Agents List - Viruses

- Andes virus
- Chapare virus
- Chikungunya virus
- Choclo virus
- Congo-Crimean haemorrhagic fever virus
- Dobrava-Belgrade virus
- Eastern equine encephalitis virus
- Ebola virus
- Guanarito virus
- Hantaan virus
- Hendra virus (Equine morbillivirus)
- Highly pathogenic avian influenza virus
- Japanese encephalitis virus
- Junin virus
- Kyasanur Forest virus
- Laguna Negra virus
- Monkey pox virus
- Murray Valley encephalitis virus
- Nipah virus
- Omsk haemorrhagic fever virus
- Oropouche virus
- Powassan virus
- Reconstructed 1918 influenza virus
- Rift Valley fever virus
- Rocio virus
- Sabia virus
- Seoul virus
- Severe acute respiratory syndrome-related coronavirus (SARS-CoV)
- Sin nombre virus
- St Louis encephalitis virus
- Tick-borne encephalitis virus (Russian Spring-



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- Lassa fever virus
- Louping ill virus
- Lujo virus
- Machupo virus
- Marburg virus
- Summer encephalitis virus)
- Variola virus
- Venezuelan equine encephalitis virus
- Western equine encephalitis virus
- Yellow fever virus

Security Sensitive Biological Agents List - Bacteria

- Bacillus anthracis
- Brucella abortus
- Brucella melitensis
- Brucella suis
- Chlamydophila psittaci (formerly known as Chlamydia psittaci)
- Francisella tularensis
- Burkholderia mallei (Pseudomonas mallei)
- Burkholderia pseudomallei (Pseudomonas pseudomallei)
- Yersinia pestis
- Coxiella burnetii
- Rickettsia prowazekii

Security Sensitive Biological Agents List - Fungi

- Coccidioides immitis
- Coccidioides posadasii

HPTA Security Clearance Program Information available through the PHAC website:

www.phac-aspc.gc.ca/lab-bio/biosecurity-biosecurite/index-eng.php

The official list of the SSBA:

www.phac-aspc.gc.ca/lab-bio/regul/ssba-abcse-eng.php