Select Agents and Toxins

Bacteria

- *Bacillus anthracis*
- *Brucella abortus*
- *Brucella melitensis*
- *Brucella suis*
- *Burkholderia mallei* (formerly *Pseudomonas mallei*)
- *Burkholderia pseudomallei* (formerly *Pseudomonas pseudomallei*)
- Botulinum neurotoxin producing species of *Clostridium*
- *Coxiella burnetii*
- Cowdria ruminantium (Heartwater)
- Francisella tularensis
- *Liberobacter africanus*
- *Liberobacter asiaticus*
- *Mycoplasma capricolum/ M*. F38/*M. mycoides capri* (contagious caprine pleuropneumonia)
- *Mycoplasma mycoides mycoides* (contagious bovine pleuropneumonia)
- *Ralstonia solanacearum*, race 3, biovar 2
- *Rickettsia prowazekii*
- *Rickettsia rickettsii*
- *Xanthomonas oryzae* pv. oryzicola
- *Xylella fastidiosa* (citrus variegated chlorosis strain)
- *Yersinia pestis*

Toxins (Below quantity in parentheses, toxin is exempt)

- Abrin (100 mg)
- Botulinum neurotoxin (0.5 mg)
- *Clostridium perfringens* epsilon toxin (100 mg)
- Conotoxins (100 mg)
- Diacetoxyscirpenol (1 g)
- Ricin (100 mg)
- Saxitoxin (100 mg)
- Shiga-like ribosome inactivating proteins (100 mg)
- Shigatoxin (100 mg)
- Staphylococcal enterotoxins (5 mg)
- T-2 toxin (1 g)
- Tetrodotoxin (100 mg)

Viruses

- African horse sickness virus
- African swine fever virus
- Akabane virus
- Avian influenza virus (highly pathogenic)
- Bluetongue virus (exotic)
- Camel pox virus
- Cercopithecine herpesvirus 1 (Herpes B virus)
- Classical swine fever virus
- Crimean-Congo haemorrhagic fever virus
- Eastern Equine Encephalitis virus
- Ebola viruses
- Foot-and-mouth disease virus
- Goat pox virus
- Hendra virus
- Japanese encephalitis virus
- Lassa fever virus
- Lumpy skin disease virus

- Malignant catarrhal fever virus (exotic)
- Marburg virus
- Menangle virus
- Monkeypox virus
- Newcastle disease virus (exotic)
- Nipah virus
- Peste des petits ruminants virus
- Plum pox potyvirus
- Rift Valley fever virus (Vaccine strain MP-12 exempt)
- Rinderpest virus
- Sheep pox virus
- South American Haemorrhagic Fever viruses [Junin (Candid #1 vaccine strain exempt) Machupo, Sabia, Flexal, Guanarito]
- Swine vesicular disease virus
- Tick-borne encephalitis complex (flavi) viruses (Central European Tick-borne encephalitis, Far Eastern Tick-borne encephalitis, Russian Spring and Summer encephalitis, Kyasanur Forest disease, Omsk Hemorrhagic Fever)
- Variola major virus (Smallpox virus) and Variola minor virus (Alastrim)
- Venezuelan Equine Encephalitis virus (Vaccine strain TC-83 exempt)
- Vesicular stomatitis virus (exotic)

Fungi

- *Coccidioides immitis*
- *Coccidioides posadasii*
- *Peronosclerospora philippinensis*
- *Phakopsora pachyrhizi*
- *Sclerophthora rayssiae var. zeae*
- Synchytrium endobioticum

Prions

- Bovine spongiform encephalopathy agent

Genetic Elements and Recombinant Organisms considered as Select Agents

- Viruses, bacteria, fungi, and toxins listed that have been genetically modified.
- Select agent viral nucleic acids (synthetic or naturally derived, contiguous or fragmented, in host chromosomes or in expression vectors) that can encode infectious and/or replication competent forms of any of the select agent viruses.
- Nucleic acids (synthetic or naturally derived) that encode for the functional form(s) of any of the toxins listed if the nucleic acids (i) are in a vector or host chromosome, (ii) can be expressed *in vivo* or *in vitro*, or (iii) are in a vector or host chromosome and can be expressed *in vivo* or *in vitro*.
- Experiments involving deliberate formation of recombinant DNA containing genes for the biosynthesis of listed toxin lethal for vertebrates at an LD50 <100 ng/kg body weight

Exclusions

- Any select agent or toxin that is in its naturally occurring environment provided it has not been intentionally introduced, cultivated, collected, or otherwise extracted from its natural source.
- Non-viable select agent organisms or nonfunctional toxins.
- Fixed tissues that bear or contain select agents or toxins.
- Genetic elements or sub-units of agents or toxins, if the genetic elements or sub-units are not capable of causing disease.