

Appendix

*** Denotes agents that may have strain exclusions. Refer to Excluded Strains for specific details.**

Select Agents and Toxins

HHS Select Agents and Toxins

1. Abrin
2. *Bacillus cereus* Biovar *anthracis*
3. Botulinum neurotoxins
4. Botulinum neurotoxin producing species of *Clostridium*
5. Conotoxins (Short, paralytic alpha conotoxins containing the following amino acid sequence X1CCX2PACGX3X4X5X6CX7)
6. *Coxiella burnetii**
7. Crimean-Congo haemorrhagic fever virus
8. Diacetoxyscirpenol
9. Eastern Equine Encephalitis virus
10. Ebola virus
11. *Francisella tularensis**
12. Lassa fever virus
13. Lujo virus
14. Marburg virus
15. Mpox virus
16. Reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus)
17. Ricin
18. *Rickettsia prowazekii*
19. SARS-associated coronavirus (SARS-CoV)
20. SARS-CoV/SARS-CoV-2 chimeric viruses resulting from any deliberate manipulation of SARS-CoV-2 to incorporate nucleic acids coding for SARS-CoV virulence factors
21. Saxitoxin

South American Haemorrhagic Fever viruses:

22. Chapare
23. Guanarito
24. Junín*
25. Machupo
26. Sabia
27. Staphylococcal enterotoxins (subtypes A,B,C,D,E)
28. T-2 toxin
29. Tetrodotoxin

Tick-borne encephalitis complex (flavi) viruses:

30. Far Eastern subtype
31. Siberian subtype
32. Kyasanur Forest disease virus
33. Omsk hemorrhagic fever virus
34. Variola major virus (Smallpox virus)
35. Variola minor virus (Alastrim)
36. *Yersinia pestis**

Overlap Select Agents and Toxins

37. *Bacillus anthracis*
38. *Bacillus anthracis* Pasteur strain
39. *Brucella abortus*
40. *Brucella melitensis*
41. *Brucella suis*
42. *Burkholderia mallei*
43. *Burkholderia pseudomallei*
44. Hendra virus
45. Nipah virus
46. Rift Valley fever virus
47. Venezuelan equine encephalitis virus

USDA Veterinary Services (VS) Select Agents and Toxins

48. African horse sickness virus
49. African swine fever virus
50. Avian influenza virus
51. Classical swine fever virus
52. Foot-and-mouth disease virus
53. Goat pox virus
54. Lumpy skin disease virus
55. *Mycoplasma capricolum*
56. *Mycoplasma mycoides*
57. Newcastle disease virus
58. Peste des petits ruminants virus
59. Rinderpest virus
60. Sheep pox virus
61. Swine vesicular disease virus

USDA Plant Protection and Quarantine (PPQ) Select Agents and Toxins

62. *Coniothyrium glycines* (formerly *Phoma glycinicola* and *Pyrenochaeta glycines*)
63. *Peronosclerospora philippinensis* (*Peronosclerospora sacchari*)
64. *Ralstonia solanacearum*
65. *Rathayibacter toxicus*
66. *Sclerophthora rayssiae*
67. *Synchytrium endobioticum*
68. *Xanthomonas oryzae*

NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules, Appendix B**Risk Group 3 - Bacterial Agents Including Rickettsia**

- *Bartonella*
- *Brucella* including *B. abortus*, *B. canis*, *B. suis*
- *Burkholderia* (*Pseudomonas*) *mallei*, *B. pseudomallei*
- *Coxiella burnetii**
- *Francisella tularensis**
- *Orientia tsutsugamushi* (was *R. tsutsugamushi*)
- *Pasteurella multocida* type B -"buffalo" and other virulent strains

- *Rickettsia akari*, *R. australis*, *R. canada*, *R. conorii*, *R. prowazekii*, *R. rickettsii*, *R. siberica*, *R. typhi* (*R. mooseri*)
- *Yersinia pestis**

Risk Group 3 - Viruses and Prions

- Alphaviruses (Togaviruses) - Group A Arboviruses
 - Chikungunya virus*
 - Semliki Forest virus
 - Venezuelan equine encephalomyelitis virus*
 - Other viruses as listed in the reference source (see Section V-C, Footnotes and References of Sections I through IV)
- Arenaviruses
 - Flexal
 - Lymphocytic choriomeningitis virus (LCM) (neurotropic strains)
- Bunyaviruses
 - Hantaviruses including Hantaan virus
 - Rift Valley fever virus
- Coronaviruses
 - SARS-associated coronavirus (SARS-CoV)
 - Middle East respiratory syndrome coronavirus (MERS-CoV)
- Flaviviruses Group B Arboviruses-
 - Japanese encephalitis virus*
 - Yellow fever virus*
 - Other viruses as listed in the reference source (see Section V-C, Footnotes and References of Sections I through IV)
- Orthomyxoviruses
 - Influenza viruses 1918-1919 H1N1 (1918 H1N1), human H2N2 (1957-1968), and highly pathogenic avian influenza H5N1 strains within the Goose/Guangdong/96-like H5 lineage (HPAI H5N1).
- Poxviruses
 - Monkeypox virus (Clade I & Clade II containing nucleic acids coding for clade I MPVX virus virulence factors)
- Prions
 - Transmissible spongiform encephalopathies (TSE) agents (Creutzfeldt-Jacob disease and kuru agents)

Risk Group 4 (RG4) - Viral Agents

- Arenaviruses
 - Guanarito virus
 - Lassa virus
 - Junin virus*
 - Machupo virus
 - Sabia
- Bunyaviruses
 - Crimean-Congo hemorrhagic fever virus

- Filoviruses
 - Ebola viruses
 - Marburg viruses
- Flaviviruses - Group B Arboviruses
 - Tick-borne encephalitis virus complex including Absetterov, Central European encephalitis, Hanzalova, Hypr, Kumlinge, Kyasanur Forest disease, Omsk hemorrhagic fever, and Russian spring-summer encephalitis viruses
- Herpesviruses (alpha)
 - Herpesvirus simiae (Herpes B or Monkey B virus)
- Paramyxoviruses
 - Equine Morbillivirus (Hendra virus)
- Hemorrhagic fever viruses as yet undefined

EXCLUDED Agents:

- Chikungunya virus (vaccine strain 181/25)
- *Coxiella burnetii* (Phase II, Nine Mile strain, plaque purified, clone 4)
- Clade II of MPVX viruses unless containing nucleic acids coding for clade I MPVX virus virulence factors
- *Coccidioides immitis* (sporulating cultures; contaminated soil)
- *Histoplasma capsulatum*, *H. capsulatum* var. *duboisii*
- *Francisella tularensis* subspecies *novicida* (strain Utah 112), *F. tularensis* ssp. *holarctica* LVS; *F. tularensis* biovar *tularensis* strain strain B38 (ATCC 6223)
- Human immunodeficiency virus (HIV) types 1 and 2
- Human T cell lymphotropic virus (HTLV) types 1 and 2
- Japanese encephalitis virus (strain SA 14-14-2)
- Junin virus (candid #1 vaccine strain)
- *Mycobacterium tuberculosis*, *Mycobacterium bovis*
- Simian immunodeficiency virus (SIV)
- Vesicular stomatitis virus
- Venezuelan equine encephalomyelitis virus (vaccine strains TC-83 and V3526)
- Yellow fever virus (vaccine strain 17D)
- *Yersinia pestis* specifically *pgm* (–) strains (lacking the 102 kb pigmentation locus) and *lcr* (–) strains (lacking the LCR plasmid)