

## List of Category 1 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
22. South American Haemorrhagic Fever viruses
  - a. Chapare
  - b. Guanarito
  - c. Junín
  - d. Machupo
  - e. Sabia
23. Staphylococcal enterotoxins (subtypes A,B,C,D,E)
24. T-2 toxin
25. Tetrodotoxin
26. Tick-borne encephalitis complex (flavi) viruses
  - a. Far Eastern subtype
  - b. Siberian subtype
27. Kyasanur Forest disease virus
28. Omsk hemorrhagic fever virus
29. Variola major virus (Smallpox virus)
30. Variola minor virus (Alastrim)
31. Yersinia pestis

### **Overlap Select Agents and Toxins**

32. Bacillus anthracis
33. Bacillus anthracis Pasteur strain
34. Burkholderia mallei
35. Burkholderia pseudomallei
36. Hendra virus
37. Nipah virus
38. Rift Valley fever virus

39. Venezuelan equine encephalitis virus

#### **USDA Veterinary Services (VS) Select Agents and Toxins**

- 40. African swine fever virus
- 41. Avian influenza virus
- 42. Classical swine fever virus
- 43. Foot-and-mouth disease virus
- 44. Goat pox virus
- 45. Lumpy skin disease virus
- 46. *Mycoplasma capricolum*
- 47. *Mycoplasma mycoides*
- 48. Newcastle disease virus
- 49. Peste des petits ruminants virus
- 50. Rinderpest virus
- 51. Sheep pox virus
- 52. Swine vesicular disease virus

#### **USDA Plant Protection And Quarantine (PPQ) Select Agents and Toxins**

- 53. *Coniothyrium glycines* (formerly *Phoma glycinicola* and *Pyrenochaeta glycines*)
- 54. *Ralstonia solanacearum*
- 55. *Rathayibacter toxicus*
- 56. *Sclerophthora rayssiae*
- 57. *Synchytrium endobioticum*
- 58. *Xanthomonas oryzae*

#### **NIH Risk Group 4 (RG4) Agents**

- 59. Arenaviruses
  - a. Guanarito virus
  - b. Lassa virus
  - c. Junin virus (except the candid #1 vaccine strain listed in Appendix B-II-D Risk Group2 (RG2) – Viruses)
  - d. Machupo virus
  - e. Sabia
- 60. Bunyaviruses (Nairovirus)
  - a. Crimean-Congo hemorrhagic fever virus
- 61. Filoviruses
  - a. Ebola viruses
  - b. Marburg viruses
- 62. Flaviruses - Group B Arboviruses
  - a. 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
- 63. Herpesviruses (alpha)
  - a. Herpesvirus simiae (Herpes B or Monkey B virus)
- 64. Paramyxoviruses
  - a. Equine Morbillivirus (Hendra virus)
- 65. Hemorrhagic fever viruses as yet undefined

#### **NIH Risk Group 3 (RG3) Agents**

- 66. *Bartonella*
- 67. *Brucella* including *B. abortus*, *B. canis*, *B. suis*
- 68. *Burkholderia* (*Pseudomonas*) *mallei*, *B. pseudomallei*
- 69. *Coxiella burnetii* (except the Phase II, Nine Mile strain listed in Appendix B-II-A, Risk Group 2 (RG2) - Bacterial Agents Including Chlamydia)

70. *Francisella tularensis* (except those strains listed in Appendix B-II-A, Risk Group 2 (RG2) – Bacterial Agents Including Chlamydia)
71. *Orientia tsutsugamushi* (was *R. tsutsugamushi*)
72. *Pasteurella multocida* type B -"buffalo" and other virulent strains
73. *Rickettsia akari*, *R. australis*, *R. canada*, *R. conorii*, *R. prowazekii*, *R. rickettsii*, *R. siberica*, *R. typhi* (*R. mooseri*)
74. *Yersinia pestis* (except those strains listed in Appendix B-II-A, Risk Group 2 (RG2) - Bacterial Agents Including Chlamydia)
75. Alphaviruses (Togaviruses) - Group A Arboviruses
  - a. Chikungunya virus (except the vaccine strain 181/25 listed in Appendix B-II-D Risk Group2 (RG2) – Viruses)
  - b. Semliki Forest virus
  - c. Venezuelan equine encephalomyelitis virus (except the vaccine strains TC-83 and V3526, see Appendix B-II-D (RG2) – Viruses)
  - d. Other viruses as listed in the reference source (see Section V-C, Footnotes and References of Sections I through IV)
76. Arenaviruses
  - a. Flexal
  - b. Lymphocytic choriomeningitis virus (LCM) (neurotropic strains)
77. Bunyaviruses
  - a. Hantaviruses including Hantaan virus
  - b. Rift Valley fever virus
78. Coronaviruses
  - a. SARS-associated coronavirus (SARS-CoV)
  - b. Middle East respiratory syndrome coronavirus (MERS-CoV)
79. Flaviviruses - Group B Arboviruses
  - a. Japanese encephalitis virus (except those strains listed in Appendix B-II-D Risk Group2 (RG2) - Viruses)
  - b. Yellow fever virus
  - c. Other viruses as listed in the reference source (see Section V-C, Footnotes and References of Sections I through IV)
80. Orthomyxoviruses
  - a. 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).
81. Poxviruses
  - a. Monkeypox virus (Clade I & Clade II containing nucleic acids coding for clade I MPVX virus virulence factors)
82. Prions
  - a. Transmissible spongiform encephalopathies (TSE) agents (Creutzfeldt-Jacob disease and kuru agents)(see Section V-C, Footnotes and References of Sections I through IV, for containment instruction)

### EXCLUDED RG3 Agents (NOT Category 1)

- Human immunodeficiency virus (HIV) types 1 and 2
- Human T cell lymphotropic virus (HTLV) types 1 and 2
- Simian immunodeficiency virus (SIV)
- *Mycobacterium tuberculosis*, *Mycobacterium bovis*
- Clade II of MPVX viruses unless containing nucleic acids coding for clade I MPVX virus virulence factors
- Vesicular stomatitis virus
- *Coccidioides immitis* (sporulating cultures; contaminated soil)
- *Histoplasma capsulatum*, *H. capsulatum* var. *duboisii*