

## Select Agents and Toxins List

HHS and USDA Select Agents and Toxins  
7CFR Part 331, 9 CFR Part 121, and 42 CFR Part 73

### 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 X<sub>1</sub>CCX<sub>2</sub>PACGX<sub>3</sub>X<sub>4</sub>X<sub>5</sub>X<sub>6</sub>CX<sub>7</sub>)<sup>1</sup>
6. *Coxiella burnetii*
7. Crimean-Congo haemorrhagic fever virus
8. Diacetoxyscirpenol
9. Eastern Equine Encephalitis virus<sup>3</sup>
10. Ebola virus\*
11. *Francisella tularensis*\*
12. Lassa fever virus
13. Lujo virus
14. Marburg virus\*
15. Monkeypox virus<sup>3</sup>
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. Saxitoxin

#### South American Haemorrhagic Fever viruses:

21. Chapare
22. Guanarito
23. Junin
24. Machupo
25. Sabia
26. Staphylococcal enterotoxins A,B,C,D,E subtypes
27. T-2 toxin
28. Tetrodotoxin

#### Tick-borne encephalitis complex (flavi) viruses:

29. Far Eastern subtype
30. Siberian subtype
31. Kyasanur Forest disease virus
32. Omsk hemorrhagic fever virus
33. Variola major virus (Smallpox virus)\*

34. Variola minor virus (Alastrim)\*
35. *Yersinia pestis*\*

### OVERLAP SELECT AGENTS AND TOXINS

36. *Bacillus anthracis*\*
37. *Bacillus anthracis* Pasteur strain
38. *Brucella abortus*
39. *Brucella melitensis*
40. *Brucella suis*
41. *Burkholderia mallei*\*
42. *Burkholderia pseudomallei*\*
43. Hendra virus
44. Nipah virus
45. Rift Valley fever virus
46. Venezuelan equine encephalitis virus<sup>3</sup>

### USDA SELECT AGENTS AND TOXINS

47. African horse sickness virus
48. African swine fever virus
49. Avian influenza virus<sup>3</sup>
50. Classical swine fever virus
51. Foot-and-mouth disease virus\*
52. Goat pox virus
53. Lumpy skin disease virus
54. *Mycoplasma capricolum*<sup>3</sup>
55. *Mycoplasma mycoides*<sup>3</sup>
56. Newcastle disease virus<sup>2,3</sup>
57. Peste des petits ruminants virus
58. Rinderpest virus\*
59. Sheep pox virus
60. Swine vesicular disease virus

### USDA PLANT PROTECTION AND QUARANTINE (PPQ) SELECT AGENTS AND TOXINS

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

\*Denotes Tier 1 Agent

<sup>1</sup> C = Cysteine residues are all present as disulfides, with the 1st and 3rd Cysteine, and the 2nd and 4th Cysteine forming specific disulfide bridges; The consensus sequence includes known toxins α-MI and α-GI (shown above) as well as α-GIA, Ac1.1a, α-CnIA, α-CnIB; X<sub>1</sub> = any amino acid(s) or Des-X; X<sub>2</sub> = Asparagine or Histidine; P = Proline; A = Alanine; G = Glycine; X<sub>3</sub> = Arginine or Lysine; X<sub>4</sub> = Asparagine, Histidine, Lysine, Arginine, Tyrosine, Phenylalanine or Tryptophan; X<sub>5</sub> = Tyrosine, Phenylalanine, or Tryptophan; X<sub>6</sub> = Serine, Threonine, Glutamate, Aspartate, Glutamine, or Asparagine; X<sub>7</sub> = Any amino acid(s) or Des X and; "Des X" = "an amino acid does not have to be present at this position." For example if a peptide sequence were XCCHPA then the related peptide CCHPA would be designated as Des-X.

<sup>2</sup> A virulent Newcastle disease virus (avian paramyxovirus serotype 1) has an intracerebral pathogenicity index in day-old chicks (*Gallus gallus*) of 0.7 or greater or has an amino acid sequence at the fusion (F) protein cleavage site that is consistent with virulent strains of Newcastle disease virus. A failure to detect a cleavage site that is consistent with virulent strains does not confirm the absence of a virulent virus.

<sup>3</sup> Select agents that meet any of the following criteria are excluded from the requirements of this part: Any low pathogenic strains of avian influenza virus, South American genotype of eastern equine encephalitis virus, west African clade of Monkeypox viruses, any strain of Newcastle disease virus which does not meet the criteria for virulent Newcastle disease virus, all subspecies *Mycoplasma capricolum* except subspecies *capripneumoniae* (contagious caprine pleuropneumonia), all subspecies *Mycoplasma mycoides* except subspecies *mycoides* small colony (Mmm SC) (contagious bovine pleuropneumonia), and any subtypes of Venezuelan equine encephalitis virus except for Subtypes IAB or IC, provided that the individual or entity can verify that the agent is within the exclusion category.