

Select Agents and Toxins List

The following biological agents and toxins have been determined to have the potential to pose a severe threat to both human and animal health, to plant health, or to animal and plant products. An attenuated strain of a select agent or an inactive form of a select toxin may be excluded from the requirements of the Select Agent Regulations. The list of excluded agents and toxins can be found at:

<http://www.selectagents.gov/Select%20Agents%20and%20Toxins%20Exclusions.html>.

HHS AND USDA SELECT AGENTS AND TOXINS 7 CFR Part 331, 9 CFR Part 121, and 42 CFR Part 73

HHS SELECT AGENTS AND TOXINS AND TOXINS

Abrin

Botulinum neurotoxins*

Botulinum neurotoxin producing species of *Clostridium**

Conotoxins (Short, paralytic alpha conotoxins

containing the following amino acid

sequence X₁CCX₂PACGX₃X₄X₅X₆CX₇)¹

Coxiella burnetii

Crimean-Congo haemorrhagic fever virus

Diacetoxyscirpenol

Eastern Equine Encephalitis virus³

Ebola virus*
virus³

OVERLAP SELECT AGENTS

Bacillus anthracis *

Bacillus anthracis Pasteur strain

Brucella abortus

Brucella melitensis

Brucella suis

*Burkholderia mallei**

*Burkholderia pseudomallei**

Hendra virus

Nipah virus

Rift Valley fever virus

Venezuelan equine encephalitis

*Francisella tularensis**

Lassa fever virus

Lujo virus

USDA SELECT AGENTS AND TOXINS

Marburg virus*

African horse sickness virus

Monkeypox virus³

African swine fever virus

Reconstructed replication competent forms of the 1918

Avian influenza virus³

pandemic influenza virus containing any portion of the

Classical swine fever virus

coding regions of all eight gene segments (Reconstructed virus*

Foot-and-mouth disease

1918 Influenza virus)

Goat pox virus

Ricin

Lumpy skin disease virus

Rickettsia prowazekii

*Mycoplasma capricolum*³

SARS-associated coronavirus (SARS-CoV)

*Mycoplasma mycoides*³

Saxitoxin

Newcastle disease virus^{2,3}

South American Haemorrhagic Fever viruses:

Chapare

Peste des petits ruminants virus

Guanarito

Rinderpest virus*

Junin

Sheep pox virus

Machupo

Swine vesicular disease virus

Sabia

Staphylococcal enterotoxins A,B,C,D,E subtypes

USDA PLANT PROTECTION AND QUARANTINE (PPQ)

	SELECT AGENTS AND TOXINS
T-2 toxin	
Tetrodotoxin (<i>Peronosclerospora</i>)	<i>Peronosclerospora philippinensis</i>
<u>Tick-borne encephalitis complex (flavi) viruses:</u>	<i>sacchari</i>
Far Eastern subtype (<i>Pyrenochaeta glycines</i>)	<i>Phoma glycinicola</i> (formerly
Siberian subtype	<i>Ralstonia solanacearum</i>
Kyasanur Forest disease virus	<i>Rathayibacter toxicus</i>
Omsk hemorrhagic fever virus	<i>Sclerophthora rayssiae</i>
Variola major virus (Smallpox virus)*	<i>Synchytrium endobioticum</i>
Variola minor virus (Alastrim)*	<i>Xanthomonas oryzae</i>
<i>Yersinia pestis</i> *	

*Denotes Tier 1 Agent

1 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; X1 = any amino acid(s) or Des-X; X2 = Asparagine or Histidine; P = Proline; A = Alanine; G = Glycine; X3 = Arginine or Lysine; X4 = Asparagine, Histidine, Lysine, Arginine, Tyrosine, Phenylalanine or Tryptophan; X5 = Tyrosine, Phenylalanine, or Tryptophan; X6 = Serine, Threonine, Glutamate, Aspartate, Glutamine, or Asparagine; X7 = 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.

2 A virulent Newcastle disease virus (avian paramyxovirus serotype 2) 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.

3 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. 9/10/13