

Appendix A: Category 1 Biological Agents and Toxins

HHS Select Agents and Toxins			
<input type="checkbox"/>	Abrin	<input type="checkbox"/>	Severe acute respiratory coronavirus (SARS-CoV)
<input type="checkbox"/>	<i>Bacillus cereus</i> Biovar anthracis	<input type="checkbox"/>	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
<input type="checkbox"/>	Botulinum neurotoxins	<input type="checkbox"/>	Saxitoxin
<input type="checkbox"/>	<i>Clostridium botulinum</i> and neurotoxin-producing species of <i>Clostridia</i>	<input type="checkbox"/>	Chapare virus
<input type="checkbox"/>	Conotoxins (Short, paralytic alpha conotoxins containing the following amino acid sequence X1CCX2PACGX3X4X5X6CX7)	<input type="checkbox"/>	Guanarito virus
<input type="checkbox"/>	<i>Coxiella burnetii</i>	<input type="checkbox"/>	Junín virus
<input type="checkbox"/>	Crimean-Congo hemorrhagic fever virus	<input type="checkbox"/>	Machupo virus
<input type="checkbox"/>	Diacetoxyscirpenol	<input type="checkbox"/>	Sabía virus
<input type="checkbox"/>	Eastern equine encephalitis virus	<input type="checkbox"/>	Staphylococcal enterotoxins (subtypes A, B, C, D, E)
<input type="checkbox"/>	Ebola virus	<input type="checkbox"/>	T-2 toxin
<input type="checkbox"/>	<i>Francisella tularensis</i>	<input type="checkbox"/>	Tetrodotoxin
<input type="checkbox"/>	Lassa fever virus	<input type="checkbox"/>	Tick-borne encephalitis complex virus: Far Eastern subtype
<input type="checkbox"/>	Lujo virus	<input type="checkbox"/>	Tick-borne encephalitis complex virus: Siberian subtype
<input type="checkbox"/>	Marburg virus	<input type="checkbox"/>	Kyasanur Forest disease virus
<input type="checkbox"/>	Mpox virus Clade I	<input type="checkbox"/>	Omsk hemorrhagic fever virus

<input type="checkbox"/>	1918-1919 H1N1 including 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)	<input type="checkbox"/>	Variola major virus (Smallpox virus)
<input type="checkbox"/>	Ricin	<input type="checkbox"/>	Variola minor virus (Alastrim)
<input type="checkbox"/>	<i>Rickettsia prowazekii</i>	<input type="checkbox"/>	Yersinia pestis
Overlap Select Agents and Toxins			
<input type="checkbox"/>	<i>Bacillus anthracis</i>	<input type="checkbox"/>	Hendra virus
<input type="checkbox"/>	<i>Bacillus anthracis</i> Pasteur strain	<input type="checkbox"/>	Nipah virus
<input type="checkbox"/>	<i>Burkholderia mallei</i>	<input type="checkbox"/>	Rift Valley fever virus
<input type="checkbox"/>	<i>Burkholderia pseudomallei</i>	<input type="checkbox"/>	Venezuelan equine encephalitis virus
USDA Veterinary Services (VS) Select Agents and Toxins			
<input type="checkbox"/>	African swine fever virus	<input type="checkbox"/>	<i>Mycoplasma mycoides</i>
<input type="checkbox"/>	Avian influenza virus [this is included here as a veterinary select agent in 9 CFR 121.3. Low pathogenicity strains are excluded.]	<input type="checkbox"/>	Newcastle disease virus
<input type="checkbox"/>	Classical swine fever virus	<input type="checkbox"/>	Peste des petits ruminants virus
<input type="checkbox"/>	Foot-and-mouth disease virus	<input type="checkbox"/>	Rinderpest virus
<input type="checkbox"/>	Goat pox virus	<input type="checkbox"/>	Sheep pox virus
<input type="checkbox"/>	Lumpy skin disease virus	<input type="checkbox"/>	Swine vesicular disease virus
<input type="checkbox"/>	<i>Mycoplasma capricolum</i>		
USDA Plant Protection and Quarantine (PPQ) Select Agents and Toxins			
<input type="checkbox"/>	<i>Coniothyrium glycines</i>	<input type="checkbox"/>	<i>Sclerophthora rayssiae</i>
<input type="checkbox"/>	<i>Ralstonia solanacearum</i>	<input type="checkbox"/>	<i>Synchytrium endobioticum</i>
<input type="checkbox"/>	<i>Rathayibacter toxicus</i>	<input type="checkbox"/>	<i>Xanthomonas oryzae</i>

Other Risk Group 4 Pathogens			
<input type="checkbox"/>	Tick-borne encephalitis virus complex including Absetterov, Central European encephalitis, Hanzalova, Hypr, and Kumlinge	<input type="checkbox"/>	Hemorrhagic fever agents and viruses as yet undefined
<input type="checkbox"/>	Herpesvirus simiae (herpes B or monkey B virus)		
Other Risk Group 3 Pathogens			
<input type="checkbox"/>	<i>Bartonella</i>	<input type="checkbox"/>	Hantaviruses, including Hantaan virus
<input type="checkbox"/>	Brucella	<input type="checkbox"/>	Middle East respiratory syndrome coronavirus (MERS-CoV)
<input type="checkbox"/>	<i>Orientia tsutsugamushi</i>	<input type="checkbox"/>	Severe acute respiratory coronavirus 2 (SARS-CoV-2)
<input type="checkbox"/>	<i>Pasteurella multocida</i> type B -"buffalo" and other virulent strains	<input type="checkbox"/>	Japanese encephalitis virus except strain SA 14-14-2
<input type="checkbox"/>	<i>Rickettsia akari</i> , <i>R. australis</i> , <i>R. canada</i> , <i>R. conorii</i> , <i>R. rickettsii</i> , <i>R. siberica</i> , <i>R. typhi</i> (<i>R. mooseri</i>)	<input type="checkbox"/>	Yellow fever virus
<input type="checkbox"/>	Chikungunya virus except the vaccine strain 181/25	<input type="checkbox"/>	Human influenza A virus H2N2 (1957-1968)
<input type="checkbox"/>	Semliki Forest virus	<input type="checkbox"/>	Highly pathogenic avian influenza A virus H5Nx strains within the Goose/Guangdong/96-like H5 lineage (e.g., H5N1, H5N6, H5N8 etc.)
<input type="checkbox"/>	Flexal virus	<input type="checkbox"/>	Transmissible spongiform encephalopathy (TSE) agents (e.g., Creutzfeldt-Jacob disease and kuru agents)
<input type="checkbox"/>	Lymphocytic choriomeningitis virus (LCM) (neurotropic strains)		
Other			

<input type="checkbox"/>	Any attenuated pathogen or vaccine strain that is currently excluded from the Select Agent Regulations that exhibits the recovery of virulence at or near the wild-type	<input type="checkbox"/>	Mpox virus clade I/II chimeric viruses resulting from any deliberate manipulation of clade II to incorporate nucleic acids coding for clade I virulence factors
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Biological agents and toxins listed in this part of the list are controlled by Select Agent Regulations, please refer to the Select Agents and Toxins list for any relevant strain exclusions.

Please refer to the NIH Guidelines for any relevant strain exclusions

There is no exemption for research involving quantities of toxins that are otherwise excluded from oversight by the Select Agent Program.