

Second session  
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LIST OF BIOLOGICAL AND TOXIN AGENTS OF MAJOR  
IMPORTANCE FOR THE CONVENTION

Working paper submitted by Cuba

**1. A. Agents to be subject to controls**

1. A.1. All known or declared agents which have been developed or standardized as biological weapons.

The following agents are among them:

- Yersinia pestis
- Vibrio cholerae
- Bacillus anthracis
- Francisella tularensis
- Brucella abortus bovis
- Brucella suis
- Brucella melitensis
- Pseudomona mallei
- Pseudomona pseudomallei
- Salmonella typhi
- Salmonella paratyphi A
- Salmonella schottmullen
- Rickettsia prowazeki
- Coxiella burnetti
- Rickettsia tsutsugamushi
- Chamydia psittaci
- Smallpox virus
- Yellow fever virus
- St. Louis encephalitis virus
- Venezuelan encephalitis virus
- Western equine encephalitis virus
- Eastern equine encephalitis virus
- African swine fever virus
- Avian influenza virus
- Coccidioides immitis
- Puccinia graminis
- Pyricularia oryzae

1. A.2. All agents included in risk categories III and IV according to WHO classification principles.

These include:

- Pasteurella multocida type B
- Rift Valley fever virus
- Japanese encephalitis B virus
- Haemorrhagic fever virus (Lassa, Junin, Machupu, Sabia, Crimea Congo, Marburg, Ebola)
- Russian primavero-estival encephalitis virus
- Mayaro virus
- Herpervirus B. (Herpervirus simiae)
- Chikungunya virus
- Histoplasma capsulatum (duboisii var.)

1. A.3. All agents belonging to risk category II that can be used as possible bacteriological weapons and are the object of research or production (diagnostic activities are excluded).

These include:

- Shigella dysenteriae
- Legionella pneumophila
- Dengue virus
- Hepatitis A virus

1. A.4. All agents which are restricted or subject to quarantine measures, are dangerous for animals and plants and do not fall in the above categories.

**Plant pathogenic agents** include:

- Agrobacterium tumefaciens
- Sugar cane Fiji disease virus
- Tomato Spotted Wilt virus
- Phymatotrichopsis omnivora
- Magnaporthe salvinii
- Phoma tracheiphila
- Clavibacter michiganensis spp. michiganensis
- Pseudomonas solanacearum
- Citrus tristeza virus
- Sugar cane bacilliform virus
- Erwinia Stewartii
- Southern bean mosaic virus

**Animal pathogenic agents** include:

- Foot-and-mouth disease
- Vesicular stomatitis
- Swine vesicular disease
- Rinderpest
- Peste des petits ruminants
- Contagious bovine
- Pleuropneumonia
- Lumpy skin disease

- Bluetongue
- Sheep pox and goat pox
- African horse sickness
- Hog cholera
- Teschen disease
- Fowl plague
- Newcastle disease

1. A.5. All manipulated pathogenic agents in risk groups III and IV or International Office of Epizootics list A which display attenuated virulence and can be used as simulators in research, development and production.

These include:

- Vaccine strains of Yersinia pestis, Bacillus anthracis and Yellow fever 17D virus.

1. A.6. All pathogenic agents and toxins which are not fully described in the international literature. This includes new organisms and toxins obtained through genetic manipulation, as well as those which have emerged or have been discovered recently or have been genetically modified and which display recognized pathogenicity.

These include:

- Parvovirus B 19
- Cryptosporidium parvum
- Staphylococcus toxin
- Human herpes virus 6
- Ehrlichia chaffeensis
- Guanarito virus
- Bartonella (Rochalimaea) henselae
- Sabia virus
- Vibrio cholera 0139

2. A. **List of classic toxins and other chemicals of biological origin**

2. A.1. All toxins and chemicals of biological origin with an effective dose of 1 microgram per kg, quantities of which exceed 5.0 milligrams in the reporting year.

These include:

- Abrin
- Saxitoxin
- Botulinum A

2. A.2. All toxins and chemicals of biological origin with an effective dose of 10 micrograms per kg, quantities of which exceed 100 milligrams in the reporting year.

These include:

- Staphylococcus enterotoxin B
- Tricothecene mycotoxins
- Tetrodotoxin

3. A. **Agents that should be subject to certain additional restrictions**

3. A.1. Agents with foci in certain regions of the world.

These include:

- Junin virus
- Machupo virus

- Ebola virus
- 4. A. **Prions in the research, development or production stage**  
(diagnostic activities are not included).

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