

Select Agents and Toxins: Keeping Lifesaving Research Safe and Secure

The Federal Select Agent Program (FSAP) regulates the possession, use, and transfer of biological select agents and toxins so that important work with potentially dangerous and deadly pathogens and toxins is conducted as safely and securely as possible in the United States.



Why it Matters



Scientific research is a critical part of our nation's defense against both naturally occurring diseases and intentional threats. Research leads to discoveries that save lives.



FSAP regularly conducts inspections of laboratories registered with the program, using a standardized checklist to ensure compliance with the regulatory requirements.



FSAP is managed jointly through CDC and USDA's Animal and Plant Health Inspection Service (APHIS). CDC regulates those select agents and toxins that cause disease in humans, while APHIS regulates those that can cause disease in animals and plants.



Laboratory research with select agents and toxins can lead to important breakthroughs in vaccine development, drug therapies, and diagnostic testing for the deadly diseases caused by these agents. Because this work can carry risk, the U.S. has regulations in place to make sure it is done as safely and securely as possible.



The Federal Select Agent Program (FSAP) regulates 67 select agents and toxins and the laboratories registered to handle them. To assist laboratories in complying with regulatory requirements when working with these agents, FSAP periodically publishes Federal Register Notices, policy statements, regulatory interpretations, and guidance documents for the regulated community.



U.S. Department of
Health and Human Services
Centers for Disease
Control and Prevention

Center for Preparedness and Response

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Why CDC?



Scientific Expertise

Through FSAP, CDC brings together experts in microbiology and other life sciences, as well as in safety and biosecurity, who know what to look for and how to apply regulations to a variety of laboratory settings.



Guidance and Oversight

FSAP requires laboratories to implement biosafety and security measures to prevent select agents and toxins from being stolen, lost, or accidentally or intentionally released. Incidents of concern could include laboratory-acquired infections (for example, through a needle-stick, spill, or animal bite), or the loss of inventory.

If such incidents do occur, FSAP follows up to ensure proper mitigation and containment actions are taken and appropriate authorities are notified, and to help the laboratory identify ways to prevent the incident from happening again.

Since the beginning of the program in 2003, there have been no confirmed thefts of a select agent or toxin from a registered entity, no deaths among laboratory workers, and no reported cases of illness or death among people in the surrounding communities due to work with these agents in regulated labs.

Behind the Clipboard: Laboratory Inspectors

CDC's laboratory inspectors keep tabs on the nation's critical select agent and toxin laboratories. Laboratory inspections generally last about three days and require that inspectors travel to sites all over the country, usually going out about once a month. And the job is never dull. Every lab is different. Some labs keep animals on the premises, while others are huge sites that mimic the factories that process our food supply. It's the inspectors' job to make sure that, no matter what's happening in each lab, the work with select agents and toxins is being conducted safely and securely. "You have to figure out how the regulations apply to every situation," an inspector notes, "no matter how unique it is."

"I think the impact of our work is important to talk about," says another inspector. "The impact of this work is to allow important research to be done. Research that involves risk. And our job is to allow this work to continue with as little risk as possible."

