



JPL CBRND ENABLING BIOTECHNOLOGIES COVID-19 SURVEILLANCE STICK

JPL CBRND Enabling Biotechnology's mission is medical solutions during a crisis against future threats. Our vision is to be the nation's premier service provider enabling rapid development, manufacture, and fielding of safe and effective countermeasures for preparedness, prevention, protection, response, and recovery from CBRN threats.

OVERVIEW

The JPEO-CBRND is developing a "surveillance stick," similar to a rapid flu test or a home pregnancy test, that will allow the Department of Defense (DOD) to quickly screen DOD personnel for COVID-19.

WHY DOES DOD NEED THIS?

- To quickly test large groups (e.g., an entire barracks, large unit) in order to begin isolation of positive cases and limit spread of the virus
- As of March 2020, there were no known COVID-19 diagnostic or screening antigen detection tests on the market for immediate purchase
- To understand the spread of COVID-19 infections in military populations



*Notional Capability

WHY IS JPEO-CBRND SUPPORTING THIS?

- Can rapidly develop and field immunoassay tests within 1-3 months and provide larger scaling in 6 months
- Can quickly leverage existing capabilities to aid U.S. whole-of-government response
- Has technical subject matter expertise in:
 - Product development
 - Manufacturing
 - Clinical trials management
 - Regulatory affairs
- Can leverage existing relationships with industry and academia
- Has active contractual relationships with industry partners that could accelerate capability development

“ EVEN THOUGH THIS THREAT WAS BROUGHT BY MOTHER NATURE INSTEAD OF AN ENEMY, JPEO-CBRND STILL HAS CAPABILITIES TO BRING TO THE FIGHT ” - DR. JASON ROOS

Government Partners

- Acting Deputy Assistant Secretary of Defense for Health Readiness Policy and Oversight (HRP&O)
- Naval Health Research Center (NHRC)
- United States Army

Industry Partners

- Pending

Funding: Provided by Defense Health Program