



# CRITICAL REAGENTS PROGRAM FACT SHEET

Certified ISO 9001 Organization

## ABOUT THE CRP

As a national resource for the biological defense community, the CRP serves as the principal resource of high quality, validated, and standardized biological reference materials, reagents, and assays that meet the technology-development and sustainment needs of the Department of Defense and its partners. The CRP also supports the biological defense community's mission by facilitating the transition of new technologies and coordinating their advanced development, efficient production and timely distribution.

The CRP product portfolio includes antibodies, inactivated antigens, genomic materials, Electrochemiluminescence (ECL) assays, Polymerase Chain Reaction (PCR) assays, Lateral Flow Immunoassays (LFIs), and Biological Sampling Kits.

## CONTACT INFORMATION

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### Website & Catalog:

<http://www.jpeocbd.osd.mil/packs/default.aspx?pg=1205>

## COMMODITY MANAGER

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# Antigens (Inactivated Agents and Toxin Materials)

## Description

An antigen is a substance that stimulates an immune response, particularly the production of antibodies. Antigens are most commonly associated with proteins or polysaccharides, but can be any type of molecule that elicits an immune response. With respect to CRP antigenic materials, the term antigen refers to an inactivated version of an entire organism or a toxin. These antigens are of high quality and are used by the biological defense community in research, development, and the test and evaluation of various products.

## Production

CRP antigens are derived from highly-characterized bacteria and viruses curated in the DoD Unified Culture Collection (UCC) and produced under ISO Guide 34 and ISO/IEC 17025 quality management systems. A schematic of the process is detailed below.

### Antigen Production



UCC sends seed stock to Government facility



Perform QC checks for sterility, concentration, and strain characteristic



Culture organism, conformance test, and inactivate



Products are stored or shipped to customers

## Technology Applications

CRP antigens support multiple applications within the biological defense community including: inoculation material for antibody production; positive control material for detection and diagnostic technologies; and challenge material for vaccine and therapeutic development programs. The CRP offers standardized antigen reference panels as well as individual antigens for several select and non-select biological agents.

## Catalog Offerings

The CRP Catalog contains a detailed list of over 250 inactivated bacterial, viral, and toxin antigens, which are available for purchase by Government customers. To place orders online, please visit OSCAR – the Ordering System CRP Assays and Reagents – at <https://pki.jacks.jpeocbd.army.mil/crp/default.aspx>. For more information on how to register for a user account and view OSCAR tutorials, please visit the CRP's website at: <http://www.jpeocbd.osd.mil/packs/Default.aspx?pg=1205>.