

# Chemical Biological Medical Systems–Prophylaxis

## INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



## MISSION

To provide the warfighter with safe, robust, affordable medical countermeasures against a broad spectrum of chemical, biological, radiological, and nuclear (CBRN) threats; use government and commercial practices to acquire FDA-approved CBRN medical countermeasures and diagnostics.

## DESCRIPTION

### Plague Vaccine:

The Plague Vaccine is a highly purified polypeptide produced from non sporeforming bacterial cells transfected with a recombinant vector from *Yersinia pestis*.

### Recombinant Botulinum Vaccine (rBV):

The Recombinant Botulinum Bivalent Vaccine (rBV) A/B comprises nontoxic botulinum toxin heavy chain (Hc) fragments of serotypes A and B formulated with an aluminum hydroxide adjuvant and delivered intramuscularly prior to potential exposure to botulinum toxins.

### Bioscavenger II:

The Bioscavenger program fills an urgent capability gap in the warfighter's defense against nerve agents by development of a nerve agent prophylactic by rendering protective equipment, in theory, unnecessary. Bioscavenger Increment II consists of Protexia®, recombinant human butyrylcholinesterase produced in the milk of transgenic goats and modified with polyethylene glycol.

## SYSTEM INTERDEPENDENCIES

None

## PROGRAM STATUS

- **1QFY09:** Plague Vaccine Phase 2a clinical study complete
- **1QFY09:** Plague Vaccine manufacture scale-up and validation initiated
- **1QFY09:** rBV Phase 1b clinical study complete
- **1QFY09:** rBV Phase 2 clinical study initiated
- **1QFY10:** Bioscavenger Phase 1 clinical study complete
- **1QFY10:** Bioscavenger large-scale manufacturing, process qualification, and validation begins

## PROJECTED ACTIVITIES

- **3QFY10:** Plague Vaccine Phase 2b clinical study begins
- **4QFY10:** rBV Phase 2 clinical study complete
- **4QFY10:** rBV large-scale manufacturing process validation complete

## ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

## Chemical Biological Medical Systems—Prophylaxis

### FOREIGN MILITARY SALES

Canada and United Kingdom: Plague  
Vaccine

### CONTRACTORS

#### Vaccines:

DynPort Vaccine (Frederick, MD)

#### Bioscavenger:

PharmAthene (Annapolis, MD)

