

Appendix G: BW Agent Lab Identification

<u>Agent</u>	<u>Gold Standard</u>	<u>Antigen Detection</u>	<u>Immunoassays</u>			<u>Animals</u>
			<u>IgG</u>	<u>IgM</u>	<u>PCR</u>	
Aflatoxins	Mass spectrometry					
Arboviruses (incl. alphaviruses)	Virus isolation/FA, neutralization	X	X	X	X	X
<i>Bacillus anthracis</i>	FA/Std. Microbiology	X (PA)	X	X	X	X
<i>Bacillus globigii</i>	Std. Microbiology				X	
<i>Bacillus thuringiensis</i>	Std. Microbiology				X	
Bot Toxins (A-G)/ <i>C. botulinum</i>	Mouse neutralization/standard microbiology	X (A,B,E Toxin)			X	X
<i>Brucella sp.</i>	FA/Std. Microbiology	X	X	X	X	X
<i>C. burnetii</i>	FA/eggs or cell Cx/serology	X	X	X	X	X
<i>C. perfringens</i> /toxins	Std. Micro./ELISA (alpha and enterotoxin)	X	X		X	
<i>F. tularensis</i>	FA/Std. Microbiology	X	X	X	X	X
Filoviruses	Virus isolation/neutralization	X	X	X	X	X
Hantaviruses	Virus isolation/FA/neutralization	X	X	X	X	X
Orthopox Viruses	Virus isolation/FA/neutralization	X	X		X	X
Ricin Toxin	ELISA	X	X	X	X	X
Saxitoxin	Bioassay		(neutralizing antibodies)			X
SEA Toxin	ELISA	X	X		*	
SEB Toxin	ELISA	X	X		*	X
<i>Shigella sp.</i>	Std. Microbiology	X			X	
Tetrodotoxins	Bioassay	X	(neutralizing antibodies)			X
<i>Vibrio cholerae</i>	Std. Microbiology/serology	X(toxin)	X	X	X	
<i>Yersinia pestis</i>	FA/Std. Microbiology	X (F1)	X	X	X	X

*Toxin gene detected

ELISA - enzyme-linked immunosorbent assays

FA - indirect or direct immunofluorescence assays

Std. Micro./serology - standard microbiological techniques available, including electron microscopy