

Song L, Ahn S, Walt DR. Detecting biological warfare agents. Emerg Infect Dis [serial on the Internet]. 2005 Oct [date cited]. Available from <http://www.cdc.gov/ncidod/EID/vol11no10/05-0269.htm>

Appendix Table 2. Cross-reactions between 18 probes on the multiplexed array\*

Targets (100 nmol/L)	Probes																	
	<i>Bacillus anthracis</i>						<i>Brucella melitensis</i>		<i>Bacillus thuringiensis kurstaki</i>		<i>Yersinia pestis</i>		Vaccinia virus		<i>Francisella tularensis</i>		<i>Clostridium botulinum</i>	
	<i>capA</i>		<i>pagA</i>		SASP-B		Sequence between BMEI1658 and BMEI1659		<i>Cry1A</i>		plasminogen activator		Thymidine kinase		<i>fopA</i>		Random chromosomal DNA fragment	
	BA1	BA2	BA3	BA4	BA5	BA6	BM1	BM2	BTK1	BTK2	YP1	YP2	VA1	VA2	FT1	FT2	CB1	CB2
BA1	808.1	173.4	13.8	14.5	18.1	9.61	17.1	9.75	21.1	21.3	22.2	27.9	31.8	29.2	30.8	27.4	30.1	27.2
BA2	712.3	701.2	15.1	18.1	9.57	-0.28	11.9	-1.54	25.8	15.6	19.8	13.4	15.2	32.5	10.5	5.2	21.6	23.1
BA3	9.61	13.4	457.4	6.48	6.15	7.6	12.4	11.4	-2.69	13.9	5.56	6.66	11.3	24.1	8.61	-2.84	29.8	16.9
BA4	11.7	20.8	26.9	693.2	26.6	8.61	20.3	25.5	31.6	14.4	5.65	9.05	19.6	21.6	17.9	31.1	19.8	25.6
BA5	10.9	2.4	5.7	14.2	410.3	113.6	10.7	2.2	12.6	19.8	25.7	30.1	-1.6	21.7	28.2	25.8	30.1	8.78
BA6	17.7	-3.45	11.3	15.5	262.8	853.9	17.5	31.6	29.9	11.4	33.6	32.2	24.8	27.6	30.9	11.9	13.7	31.4
BM1	7.92	3.32	23.2	-3.22	18.8	11.5	723.5	-4.28	32.2	-4.99	20.8	25.8	18.2	17.3	29.3	27.9	25.9	14.6
BM2	3.08	3.84	26.8	6.78	3.96	5.67	24.1	973.3	21.3	1.11	15.9	17.6	19.9	32.8	13.9	24.4	34.4	12.9
BTK1	14.1	6.1	30.4	6.35	15.6	9.77	17.1	6.05	1423.1	232.8	32.4	19.2	19.7	12.5	16.6	26.3	8.95	23.1
BTK2	27.7	-0.91	3.39	6.8	8.39	4.56	10.3	9.59	425.8	1288.6	22.1	8.16	9.8	18.9	28.2	19	7.84	19.4
YP1	12.5	-0.79	28	4.56	12.5	5.11	8.88	20.6	12.9	32.1	2089	588.7	23.6	24.6	179.7	25.7	15.9	29.2
YP2	23.4	32.1	23.6	14.2	-1.58	29.3	15.4	19.1	28.1	23.8	1491.5	1784	14.5	11.3	9.7	7.05	23.9	14.6
VA1	8.9	24.9	25.3	4.71	8.61	18.7	13.6	8.61	3.12	9.87	12.7	16.6	1536.9	1.75	25.4	23.8	17.7	11.8
VA2	43.1	15.9	4.59	8.94	7.18	23.2	29.4	3.25	15.4	14.7	26.7	12	18.3	1703.4	23.9	-0.76	26.3	29.7
FT1	19.8	19.7	8.77	25.6	14.6	4.65	32.1	14.7	6.96	1.56	14.9	0.65	0.56	0.78	793	26.8	28.5	20.5
FT2	25.4	8.4	11.5	16.9	19.7	7.98	9.94	17.9	12.5	25.1	4.44	14.5	8.3	13.4	216.7	456.9	8.99	27.9
CB1	23.1	5.68	16.9	20.1	27.2	15.3	14.1	9.11	7.46	16.1	4.6	19	28.3	171.6	4.93	24.8	843.1	18.5
CB2	14.8	11.2	8.45	8.16	5.45	24.6	20.9	3.25	1.62	21.9	25.8	23.5	13.3	18.0	28.2	21.2	89.1	592.1

\*The numbers are net fluorescence intensities (in arbitrary units) obtained by subtracting the average intensity value of the background from that of the hybridization signal. The specific response for each probe is indicated in red. The cross responses between probes designed for the same biological warfare agent (BWA) are indicated in pink, and the cross-reactions between probes from different BWAs are marked with blue. The standard deviation (SD) of background is 15 (n = 3), and the detection limit of array hybridization for each microsphere probe is 45, defined as 3 × SD.