

# SERUM EXCHANGE #551

## JULY 1, 2016

<b>Sera</b>	<b>1197-1200</b>
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The results for **Serum Exchange 551 (sera 1197 - 1200)**, are summarized in Tables 16-21 and individual laboratory results by method are listed in

Tables 22-31. Sera positive to A1, A11, A25, and A26 were examined in this exchange.

1197 class I	method	#labs	A25	A26	NEG	A34	A66	A6601	A6602	B57	B58	A11	A1101	A1102	B63	A29	B54	B55	B38	B39	A80	B59	Cw4	Cw6
			NIH-Std	4	25	25	25																	
	NIH-Ext	3	100	100		33	100			33	33				33									
	AHG	2	50	50		50		50		50	50	50											50	50
	Luminex	28	96	96		96	75	36	36	100	89	79	32	29	89	96	86	82	79	71	64	43	4	11
	Flow	1	no consensus																					
	ELISA	2	100	100		100	100			100	100	50			100	100	50	50	50	50	50	50		
	C1q	1	no consensus																					
	Other	1	no consensus																					

  

1197 class II	method	#labs	B18	B52	A43	A33	A68	B67	A30	A1	A36	A69	A31	B41	B56	A74	B42	B8	B73	Cw18	B3901	Cw7	B37
			NIH-Std	4		25																	
	AHG	2	50																				
	Luminex	28	4	4	89	86	75	71	71	68	68	64	61	61	61	57	57	29	25	18	14	14	11

**Serum 1197** was reported as positive to A25 and A26 by all methods. Reactivity to other 10C specificities (A34 and A66), as well as reactivity to 1C and 5C specificities was reported by various methods. Additional reactivity to B38, B39, B54, B55, and B59 was reported by Luminex and Elisa. Allele level reactivity to B\*39:01 was also reported by a few (n=4) Luminex labs. For class II, strong reactivity to DR52 associated antigens, along with reactivity to DP specificities, was reported by Luminex. Several labs reported allele level reactivity to DRB1\*09:01 and several reported reactivity to DQB1\*06:01 and DQB1\*06:03.

1197 class II	method	#labs	DR10	DR11	DR13	DR14	DP14	DP17	DP18	DP28	DPw2	DPw3	DR52	DR12	DR17	DR18	DR7	DP10	DP20	DP9	DPw6	DR9	DQ7	DQ9	DPw4	DQ6	DQ8	DP402	DPw1	DPw5	DQ2	DR3	DQ3
			NIH-Std	1	no consensus																												
	NIH-Ext	1	no specificities assigned																														
	Luminex	23	100	100	100	96	91	91	91	91	91	91	91	91	87	87	87	83	83	83	83	74	74	65	57	57	57	52	22	17	17	13	9
	Flow	1	no specificities assigned																														
	C1q	1	no consensus																														
	Other	1	no consensus																														

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**Table 16. Summary of the 551st Serum Exchange (Serum #1197-1200) by NIH-Standard and NIH-Extended - class I**

<b>Method: NIH-Standard</b>											
<b>*** Serum 1197 ***</b>			<b>*** Serum 1198 ***</b>			<b>*** Serum 1199 ***</b>			<b>*** Serum 1200 ***</b>		
4 typing Labs			4 typing Labs			4 typing Labs			4 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A25	25%	100%	A25	50%	100%	A11	75%	100%	A1	100%	88%
A26	25%	100%	NEG	25%	100%	A3	50%	86%	A25	75%	100%
B52	25%	100%				A19	25%	100%	A11	75%	86%
NEG	25%	100%				A25	25%	100%	B8	50%	100%
						A26	25%	100%	A23	25%	100%
						A34	25%	100%	A24	25%	100%
						A66	25%	100%	A26	25%	100%
									A34	25%	100%
									A36	25%	100%

<b>Method: NIH-Extended</b>											
<b>*** Serum 1197 ***</b>			<b>*** Serum 1198 ***</b>			<b>*** Serum 1199 ***</b>			<b>*** Serum 1200 ***</b>		
3 typing Labs			3 typing Labs			2 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A26	100%	100%	A25	100%	100%	A11	50%	100%	A11	100%	100%
A25	100%	67%	A26	100%	67%	A26	50%	100%	A25	100%	100%
A66	100%	50%	A66	67%	100%	A30	50%	100%	A26	100%	100%
A34	33%	100%				A74	50%	100%	A34	100%	100%
B57	33%	100%							A66	67%	100%
B58	33%	100%							B8	67%	100%
B63	33%	100%							A1	67%	91%
									A24	67%	75%
									B14	33%	100%
									B7	33%	100%
									A23	33%	75%

**Table 17. Summary of the 551st Serum Exchange (Serum #1197-1200) by Antiglobulin, C1q, Other - class I**

Method: Antiglobulin											
*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1199 ***			*** Serum 1200 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A25	50%	100%	A25	100%	100%	A11	100%	100%	A1	100%	100%
A26	50%	100%	A11	50%	100%	A26	100%	100%	A11	100%	100%
A6601	50%	100%	A26	50%	100%	A29	100%	100%	A23	100%	100%
Cw4	50%	100%	A6601	50%	100%	A3	100%	100%	A24	100%	100%
Cw6	50%	100%	B81	50%	100%	A31	100%	100%	A26	100%	100%
A11	50%	75%	B51	50%	89%	A33	100%	100%	A34	100%	100%
B57	50%	60%	B53	50%	86%	A34	100%	100%	A25	50%	100%
B18	50%	50%	B35	50%	83%	A30	100%	86%	A32	50%	100%
B58	50%	50%	A34	50%	67%	A74	100%	83%	A36	50%	100%
A34	50%	33%				A25	100%	67%	A66	50%	100%
						A1	50%	100%	B22	50%	100%
						A32	50%	100%	B35	50%	100%
						A66	50%	100%	B38	50%	100%
						A6601	50%	100%	B51	50%	100%
						B35	50%	100%	B8	50%	100%
						B64	50%	100%	Bw6	50%	92%
						B65	50%	100%			

Method: C1q											
*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1199 ***			*** Serum 1200 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
	no consensus			no consensus			no consensus			no consensus	

Method: Other											
*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1199 ***			*** Serum 1200 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
	no consensus			no consensus			no consensus			no consensus	

**Table 18. Summary of the 551st Serum Exchange (Serum #1197-1200) by Luminex - class I**

Method: Luminex											
*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1199 ***			*** Serum 1200 ***		
28 typing Labs			28 typing Labs			27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B57	100%	100%	A25	100%	100%	A1	100%	100%	A1	100%	100%
A25	96%	100%	A26	100%	100%	A3	100%	100%	A23	100%	100%
A26	96%	100%	A34	100%	100%	A30	100%	100%	A80	100%	100%
A29	96%	100%	B35	100%	100%	A33	100%	100%	B7	100%	100%
A34	96%	100%	A32	96%	100%	A25	96%	100%	B8	100%	100%
B58	93%	100%	B18	96%	100%	A26	96%	100%	A25	96%	100%
A43	89%	100%	B56	96%	100%	A29	96%	100%	A26	96%	100%
B63	89%	100%	A24	93%	100%	A31	96%	100%	A34	96%	100%
B54	86%	80%	B53	93%	100%	A34	96%	100%	A36	96%	100%
A33	86%	33%	A43	89%	100%	A36	96%	100%	B18	96%	100%
B55	82%	60%	B73	89%	100%	A74	96%	100%	B35	96%	100%
B38	79%	100%	A1	86%	100%	A80	96%	100%	B41	96%	100%
A11	79%	72%	A23	86%	100%	B35	96%	100%	B42	96%	100%
A66	75%	100%	A36	86%	100%	B7	96%	100%	B54	96%	100%
A68	75%	100%	B62	86%	100%	B8	96%	100%	B55	96%	100%
B67	71%	100%	B71	86%	100%	A43	93%	100%	B56	96%	100%
B39	71%	75%	B77	86%	100%	B18	93%	100%	B59	96%	100%
A30	71%	58%	Cw4	86%	100%	B41	93%	100%	B67	96%	100%
A1	68%	100%	B75	86%	88%	B42	93%	100%	B73	96%	100%
A36	68%	100%	B50	86%	80%	B45	93%	100%	Cw18	96%	100%
A69	64%	100%	Cw18	86%	60%	B50	93%	100%	Cw7	96%	91%
A80	64%	100%	Cw6	86%	60%	B55	93%	100%	Cw6	96%	87%
A31	61%	100%	B49	82%	100%	B60	93%	100%	A24	96%	79%
B41	61%	100%	B51	82%	100%	B67	93%	100%	A43	89%	100%
B56	61%	100%	B52	82%	100%	B71	93%	100%	B62	93%	83%
A74	57%	100%	A11	79%	100%	B48	89%	100%	B45	89%	100%
B42	57%	100%	A80	79%	100%	B53	89%	100%	B60	89%	100%
B59	43%	100%	B46	79%	100%	B54	89%	100%	B64	89%	100%
A6601	36%	100%	B63	79%	100%	B56	89%	100%	B65	89%	100%
A6602	36%	100%	B72	79%	100%	B61	89%	100%	B71	89%	100%
A1101	32%	100%	B78	79%	100%	B62	89%	100%	B72	89%	100%
A1102	29%	100%	A66	79%	90%	B72	89%	100%	B75	89%	100%
B8	29%	100%	B57	75%	100%	B75	89%	83%	B61	89%	89%
B73	25%	100%	B60	75%	100%	B76	85%	100%	B50	89%	80%
Cw18	18%	100%	B58	71%	100%	B64	81%	100%	B76	85%	100%

**Table 18. Summary of the 551st Serum Exchange (Serum #1197-1200) by Luminex - class I**

<b>Method: Luminex - cont.</b>											
<b>*** Serum 1197 ***</b>			<b>*** Serum 1198 ***</b>			<b>*** Serum 1199 ***</b>			<b>*** Serum 1200 ***</b>		
28 typing Labs			28 typing Labs			27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B3901	14%	100%	B67	71%	100%	B65	81%	100%	B78	85%	80%
Cw7	14%	100%	A68	71%	50%	A11	78%	100%	B48	81%	100%
B37	11%	100%	B61	71%	50%	B39	75%	100%	B51	81%	80%
Cw6	11%	100%	A69	68%	100%	A66	74%	100%	B37	81%	75%
A3	7%	100%	B48	68%	100%	B77	74%	100%	A11	78%	100%
B15	7%	100%	Cw7	68%	100%	B78	74%	100%	B39	78%	100%
A10C	4%	100%	B37	61%	100%	B81	74%	100%	B82	78%	100%
B18	4%	100%	B76	57%	100%	B51	74%	57%	B77	74%	100%
B27	4%	100%	A33	50%	100%	A24	70%	100%	Cw4	74%	100%
B46	4%	100%	B81	50%	100%	B82	70%	100%	B38	70%	100%
B52	4%	100%	B54	46%	100%	B27	63%	67%	B53	70%	100%
B64	4%	100%	Cw15	46%	100%	Cw18	59%	100%	B81	70%	100%
B65	4%	100%	B39	43%	100%	Cw6	59%	100%	A66	70%	70%
B71	4%	100%	B41	39%	100%	Cw4	56%	100%	Cw17	63%	100%
B75	4%	100%	B59	39%	100%	Cw15	52%	100%	B27	63%	56%
B77	4%	100%	A6601	36%	100%	Cw2	52%	100%	A33	56%	100%
B81	4%	100%	A6602	36%	100%	Cw5	52%	100%	B2708	52%	100%
B82	4%	100%	A1101	32%	100%	B2708	44%	100%	Cw15	41%	100%
Bw4	4%	100%	A1102	32%	100%	A6601	37%	100%	A1101	33%	100%
Cw15	4%	100%	A2403	32%	100%	A6602	37%	100%	A1102	33%	100%
Cw4	4%	100%	Cw10	32%	100%	Cw17	37%	100%	A6601	33%	100%
Cw8	4%	100%	B8	29%	100%	A1101	33%	100%	Bw6	30%	100%
			B27	21%	100%	A1102	33%	100%	Cw2	30%	100%
			B7801	21%	100%	A23	33%	100%	Cw5	30%	100%
			Cw9	21%	100%	A32	26%	100%	B3901	26%	100%
						B46	26%	100%	A3	22%	100%
						A2403	22%	100%	B8101	22%	100%
						B3901	22%	100%			
						B8101	22%	100%			
						Bw6	22%	98%			

**Table 19. Summary of the 551st Serum Exchange (Serum #1197-1200) by Flow Cytometry and ELISA - class I**

Method: Flow Cytometry											
*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1199 ***			*** Serum 1200 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no antigens assigned			no antigens assigned			no antigens assigned			no antigens assigned		

Method: ELISA											
*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1199 ***			*** Serum 1200 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A25	100%	100%	A11	100%	100%	A1	100%	100%	A1	100%	100%
A26	100%	100%	A25	100%	100%	A11	100%	100%	A11	100%	100%
A29	100%	100%	A26	100%	100%	A25	100%	100%	A23	100%	100%
A34	100%	100%	A66	100%	100%	A26	100%	100%	A25	100%	100%
A66	100%	100%	B35	100%	100%	A29	100%	100%	A26	100%	100%
B57	100%	100%	B50	100%	100%	A3	100%	100%	A34	100%	100%
B58	100%	100%	B51	100%	100%	A30	100%	100%	A36	100%	100%
B63	100%	100%	B53	100%	100%	A31	100%	100%	A66	100%	100%
A11	50%	100%	B63	100%	100%	A33	100%	100%	A80	100%	100%
A80	50%	100%	B72	100%	100%	A34	100%	100%	B18	100%	100%
B39	50%	100%	B75	100%	100%	A36	100%	100%	B35	100%	100%
B54	50%	100%	B78	100%	100%	A66	100%	100%	B37	100%	100%
B55	50%	100%	A32	100%	75%	A74	100%	100%	B39	100%	100%
B59	50%	100%	B18	100%	75%	A80	100%	100%	B41	100%	100%
B38	50%	50%	B52	100%	75%	B18	100%	100%	B42	100%	100%
			A34	50%	100%	B35	100%	100%	B45	100%	100%
			B46	50%	100%	B41	100%	100%	B48	100%	100%
			B48	50%	100%	B42	100%	100%	B50	100%	100%
			B56	50%	100%	B45	100%	100%	B52	100%	100%
			B58	50%	100%	B48	100%	100%	B54	100%	100%
			B59	50%	100%	B50	100%	100%	B55	100%	100%
			B61	50%	100%	B53	100%	100%	B56	100%	100%
			B62	50%	100%	B55	100%	100%	B59	100%	100%
			B71	50%	100%	B60	100%	100%	B60	100%	100%
			B81	50%	100%	B61	100%	100%	B61	100%	100%
			A24	50%	50%	B62	100%	100%	B62	100%	100%
			B57	50%	50%	B7	100%	100%	B64	100%	100%
			B7	50%	50%	B72	100%	100%	B65	100%	100%
						B75	100%	100%	B67	100%	100%
						B78	100%	100%	B7	100%	100%
						B8	100%	100%	B71	100%	100%
						B81	100%	100%	B75	100%	100%

**Table 20. Summary of the 551st Serum Exchange (Serum #1197-1200) by Luminex - class II**

Method: Luminex											
*** Serum 1197 ***			*** Serum 1198 ***			*** Serum 1199 ***			*** Serum 1200 ***		
23 typing Labs			20 typing Labs			13 typing Labs			22 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR10	100%	100%	DR4	95%	100%	NEG	69%	100%	DQ2	95%	90%
DR11	100%	100%	DR15	90%	100%	DP18	15%	100%	DR7	64%	100%
DR13	100%	91%	DR16	85%	100%	DR103	15%	100%	DR52	23%	100%
DR14	96%	82%	DPW1	25%	100%	DR14	15%	100%	DR18	18%	100%
DP14	91%	100%	DR51	20%	100%	DR18	15%	100%	DQ5	5%	100%
DP17	91%	100%	DPW5	15%	100%	DPW3	15%	67%	DR3	5%	100%
DP18	91%	100%	DP14	5%	100%	DR12	15%	67%			
DP28	91%	100%	DQ7	5%	100%	DPW1	15%	60%			
DPW2	91%	100%	DQ8	5%	100%	DP10	8%	100%			
DPW3	91%	100%	DQ9	5%	100%	DP11	8%	100%			
DR52	91%	97%	DR2	5%	100%	DP13	8%	100%			
DR12	91%	88%				DP14	8%	100%			
DR17	87%	100%				DP15	8%	100%			
DR18	87%	100%				DP17	8%	100%			
DR7	87%	100%				DP19	8%	100%			
DP10	83%	100%				DP20	8%	100%			
DP20	83%	100%				DP23	8%	100%			
DP9	83%	100%				DP28	8%	100%			
DPW6	83%	100%				DP9	8%	100%			
DR9	74%	86%				DPW2	8%	100%			
DQ7	74%	60%				DPW4	8%	100%			
DQ9	65%	33%				DPW5	8%	100%			
DPW4	57%	50%				DPW6	8%	100%			
DQ6	57%	33%				DQ2	8%	100%			
DQ8	57%	33%				DQ4	8%	100%			
DP402	52%	100%				DQ5	8%	100%			
DPW1	22%	100%				DQ6	8%	100%			
DPW5	17%	100%				DQ7	8%	100%			
DQ2	17%	100%				DQ8	8%	100%			
DR3	13%	100%				DQ9	8%	100%			
DQ3	9%	100%				DR1	8%	100%			
DQ4	4%	100%				DR10	8%	100%			
DR103	4%	100%				DR11	8%	100%			
DR1404	4%	100%				DR13	8%	100%			
DR4	4%	100%				DR15	8%	100%			

**Table 21. Summary of the 551st Serum Exchange (Serum #1197-1200) by NIH, Flow Cytometry, C1q, Other - class II**

Method: NIH-Standard											
<b>*** Serum 1197 ***</b>			<b>*** Serum 1198 ***</b>			<b>*** Serum 1999 ***</b>			<b>*** Serum 1200 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			NT			NT			NT		

Method: NIH-Extended											
<b>*** Serum 1197 ***</b>			<b>*** Serum 1198 ***</b>			<b>*** Serum 1999 ***</b>			<b>*** Serum 1200 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no antigens assigned			no consensus			no antigens assigned			no antigens assigned		

Method: Flow Cytometry											
<b>*** Serum 1197 ***</b>			<b>*** Serum 1198 ***</b>			<b>*** Serum 1999 ***</b>			<b>*** Serum 1200 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no antigens assigned			no antigens assigned			no consensus			no antigens assigned		

Method: C1q											
<b>*** Serum 1197 ***</b>			<b>*** Serum 1198 ***</b>			<b>*** Serum 1999 ***</b>			<b>*** Serum 1200 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			NT			NT			NT		

Method: *Other											
<b>*** Serum 1197 ***</b>			<b>*** Serum 1198 ***</b>			<b>*** Serum 1999 ***</b>			<b>*** Serum 1200 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

\*Other = PRA



**Table 22. Individual laboratory results for Serum #1197-#1200 by NIH-Standard and NIH-Extended - class I**

Investigator	**** Serum 1197 ****					**** Serum 1198 ****				**** Serum 1199 ****					**** Serum 1200 ****						Method
	% POS	A25	A26	B52	Other	% POS	A25		Other	% POS	A11	A3		Other	% POS	A1	A25	A11	B8	Other	
Claas, F.H.J.	50	+	+	+		0				25	+	+			42	+	+			A36	STD
Fort, Marylise	5					NT				NT					NT						STD
McCluskey, James	0					5.5	+			33					50	+	+	+		A34	STD
Vasilescu, Rodica	NT						+				+	+		A66,A25,A26,A34 >		+	+	+	+	A24,A26,A23	STD
Watson, Narelle	3					2				31	+				48	+		+	+		STD

STD=NIH-Standard

Investigator	**** Serum 1197 ****					**** Serum 1198 ****				**** Serum 1199 ****					**** Serum 1200 ****						Method	
	% POS	A26	A25	A66	Other	% POS	A25	A26	Other	% POS	A11	A26	A30	A74	Other	% POS	A11	A25	A26	A34		Other
Dunckley, Heather	36	+	+	+	B63,B57,B58	22	+	+	A66	16		+				52	+	+	+	+	A24,A1,B8	EXT
Lardy, N.M.	19	+	+	+		9	+	+		NT						76	+	+	+	+	A24,A66,B7,A1 >	EXT
Reed, Elaine F. PhD	36	+	+	+	A34	10	+	+	A66	47	+		+	+		74	+	+	+	+	A66	EXT

STD=NIH-Extended

**Table 23. Individual laboratory results for Serum #1197-#1200 by Antiglobulin and C1q - class I**

	**** Serum 1197 ****											**** Serum 1198 ****												
Investigator	% POS	A25	A26	A6601	Cw4	Cw6	A11					Other	% POS	A25	A11	A26	A6601	B81	B51				Other	Method
Hahn, Amy B. PhD		+	+	+			+					A34,B57,B58,B18		+	+	+	+	+	+				B53,A34,B35	Antiglobulin
Vasilescu, Rodica					+	+								+										Antiglobulin

	**** Serum 1199 ****											**** Serum 1200 ****												
Investigator	% POS	A11	A26	A29	A3	A31	A33	A34	A30	A74	A25	Other	% POS	A1	A11	A23	A24	A26	A34				Other	Method
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	A1,A32,B64,B65 >		+	+	+	+	+	+				A32,Bw6	Antiglobulin
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	A66,B35		+	+	+	+	+	+				A66,B51,B22,A25 >	Antiglobulin

	**** Serum 1197 ****											**** Serum 1198 ****												
Investigator	% POS	A25	A26	A66	Cw2	Cw6						Other	% POS	A25	A26	A66							Other	Method
Liu, Chang MD, PhD		+	+	+	+	+								+	+	+								C1q

	**** Serum 1199 ****											**** Serum 1200 ****													
Investigator	% POS	A1	A11	A25	A26	A29	A3	A30	A31	A33	A34	Other	% POS	A1	A11	A23	A24	A25	A26	A34	A36	A43	A66	Other	Method
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	A66,B75,A74,A36 >		+	+	+	+	+	+	+	+	+	+	Cw6,B78,B51,B75 >	C1q

**Table 24. Individual laboratory results for Serum #1197 by Luminex - class I**

		**** Serum 1197 ****																																					
Investigator	% POS	B57	A25	A26	A29	A34	B58	A43	B63	B54	A33	B55	B38	A11	A66	A68	B67	B39	A30	A1	A36	A69	A80	A31	B41	B56	A74	B42	B59	A6601	A6602	A1101	A1102	B8	B73	Cw18	Other	Method	
Abu Amin, Noryati	Multi	+			+						+			+	+				+						+			+									B52,B18,Cw7,Cw8	LMX	
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		+	+	+		+				+	+	+	+				B3901	LMX	
Bengochea, Carrette	25	+	+	+	+	+	+	+	+	+	+	+	+			+	+			+	+		+							+	+	+	+				B3901	LMX	
Cecka, J. Michael P	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+																			B3901	LMX
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+			+	+		+	+	+	+	+	+	+	+	+	+	+								B3901	LMX	
Daniel, Dolly	11	+	+	+	+	+		+						+			+	+		+	+	+	+	+	+	+	+	+	+	+	+	+				B15,Bw4,A10C	LMX		
Dunckley, Heather	77	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX
Esteves Kondo, Det	21	+	+	+	+	+	+	+	+	+	+	+		+	+			+	+																				LMX
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+		LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX	
Hamdi, Nuha	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX	
Hod, Reut	58	+	+	+	+	+	+		+	+		+		+	+		+			+					+				+								Cw4,B27,B75,B65 >	LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+	Cw6,A3,B37,Cw7 >	LMX	
Keming, Du	18	+	+	+	+	+	+	+	+	+		+	+	+	+				+																				LMX
Lardy, N.M.		+	+	+	+	+	+	+	+		+			+	+																								LMX
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+												LMX
Loewenthal , Ron M	22	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+			+									+	+	+	+					LMX	
McCluskey, James	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,B37,Cw7	LMX
Pancoska, Carol Ph	78	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX	
Permpikul, Vejbaesy	31	+	+	+		+	+		+				+		+			+																				B82,B64,B81	LMX
Pule, Ziningi	23	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+			+	+																B15	LMX
Reed, Elaine F. PhD	37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX	
Rosen-Bronson, Sa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+				LMX	
V.Brouard, M.Tonye	51	+	+	+	+	+	+	+	+	+	+	+	+			+	+		+	+	+	+	+	+	+	+	+	+									B3901	LMX	
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+	Cw6,A3,B37,Cw7	LMX	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+		LMX	

**Table 25. Individual laboratory results for Serum #1199 by Luminex - class I**

**** Serum 1198 ****																																															
Investigator	% POS	A25	A26	A34	B35	A32	B18	B56	A24	B53	A43	B73	A1	A23	A36	B62	B71	B77	Cw4	B75	B50	Cw18	Cw6	B49	B51	B52	A11	A80	B46	B63	B72	B78	A66	B57	B60	B58	B67	A68	B61	Other	Method						
Abu Amin, Noryati	Multi	+	+	+	+				+	+			+	+		+											+															B7,A33,A3,B42 >	LMX				
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,A69,Cw7,A2403 >	LMX			
Bengochea, Carrette	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+												B76,B39,B8,B8101 >	LMX			
Cecka, J. Michael P	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX			
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+												B48,B54,A33,A69 >	LMX			
Daniel, Dolly	14	+	+	+	+	+	+	+	+	+	+	+	+																														B15,Bw4,Bw6,A2403>	LMX			
Dunckley, Heather	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B54,A33,A69 >	LMX			
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,A69,B76,B37 >	LMX		
Esteves Kondo, Det	33	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+	+	+	+	+	+	+				+	+	+												LMX			
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B27,B54,A33 >	LMX			
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B54,A33,A69 >	LMX		
Hamdi, Nuha	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,A69,B76,B37 >	LMX		
Hod, Reut	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B47,B27,B82 >	LMX		
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B54,A33,A69 >	LMX			
Keming, Du	32	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX			
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B81	LMX			
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,A69,B37,Cw7	LMX		
Loewenthal , Ron M	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw403,B48,B13 >	LMX			
McCluskey, James	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B13,B27,B7 >	LMX		
Pancoska, Carol Ph	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,A69,B76,B81 >	LMX		
Permpikul, Vejbaesy	49	+	+	+	+	+	+						+		+													+															A33	LMX			
Pule, Ziningi	33	+	+	+	+	+	+	+	+		+	+	+		+								+	+																				B15	LMX		
Reed, Elaine F. PhD	58	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,A69,B76,B39 >	LMX		
Rosen-Bronson, Sa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B54,A33,A69 >	LMX	
V.Brouard, M.Tonye	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,B40,B48,B54 >	LMX		
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B13,B27,B54 >	LMX	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B13,B54,A33 >	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B13,B27,B54 >	LMX

**Table 26. Individual laboratory results for Serum #1199 by Luminex - class I**

Investigator	% POS	**** Serum 1199 ****																																	Other	Method							
		A1	A3	A30	A33	A25	A26	A29	A31	A34	A36	A74	A80	B35	B7	B8	A43	B18	B41	B42	B45	B50	B55	B60	B67	B71	B48	B53	B54	B56	B61	B62	B72	B75			B76	B64	B65	A11	B39		
Abu Amin, Noryati	Multi	+	+	+	+																				+		+												+	+	A24,A2,B44,B27>	LMX	
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B27,B51>	LMX
Bengochea, Carrette	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,Cw403,B77>	LMX	
Cecka, J. Michael P	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B27>	LMX	
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,B51>	LMX	
Daniel, Dolly	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+															B40,B15,B14,Bw4 >	LMX	
Dunckley, Heather	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B51>	LMX
Esteves Kondo, Del	51	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B27,B82,B81	LMX	
Fort, Marylise	NT																																									LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Hamdi, Nuha	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Hod, Reut	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A2,A66>	LMX
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Keming, Du	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B27,B51>	LMX
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B27,B82>	LMX
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B27>	LMX
Loewenthal , Ron M	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,Cw403>	LMX
McCluskey, James	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A9>	LMX
Pancoska, Carol Ph	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Permpikul, Vejbaesy	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Pule, Ziningi	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,A66,B27,B14	LMX
Reed, Elaine F. PhD	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B82>	LMX
Rosen-Bronson, Sa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
V.Brouard, M.Tonye	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A203>	LMX
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,B78>	LMX
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A24,A66>	LMX

**Table 27. Individual laboratory results for Serum #1200 by Luminex - class I**

		**** Serum 1200 ****																																																
Investigator	% POS	A1	A23	A80	B7	B8	A25	A26	A34	A36	B18	B35	B41	B42	B54	B55	B56	B59	B67	B73	Cw18	Cw7	Cw6	A24	A43	B62	B45	B60	B64	B65	B71	B72	B75	B61	B50	B76	B78	B48	B51	Other	Method									
Abu Amin, Noryati	Multi	+	+	+	+	+						+		+										+		+																			A11,A33,A3,Cw2	LMX				
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX				
Bengochea, Carrette	57	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw403,A66,B53>	LMX				
Cecka, J. Michael P	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,B27,B82>	LMX				
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,B53,A33,B77>	LMX				
Daniel, Dolly	28	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+																		+	+	B15,B14,Bw4,Bw6>	LMX			
Dunckley, Heather	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX				
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B53,B82,A33>	LMX			
Esteves Kondo, Det	52	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX			
Fort, Marylise	NT																																														LMX			
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX		
Hamdi, Nuha	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX		
Hod, Reut	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A2,A66>	LMX		
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX		
Keming, Du	47	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,B27,B82>	LMX		
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,B27,B82>	LMX	
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX	
Loewenthal , Ron M	58	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw403,B53>	LMX		
McCluskey, James	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A9,B40>	LMX	
Pancoska, Carol Ph	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX	
Permpikul, Vejbaesy	57	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX	
Pule, Ziningi	46	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,B15,A66>	LMX	
Reed, Elaine F. PhD	59	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B53>	LMX	
Rosen-Bronson, Sa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,B53,B82>	LMX	
V.Brouard, M.Tonye	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,B53,A33,B77>	LMX	
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,B53,A33,B77>	LMX	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B27>	LMX

**Table 28. Individual laboratory results for Serum #1197 - #1200 by Other, Flow Cytometry, and ELISA - class I**

	**** Serum 1197 ****											**** Serum 1198 ****													
Investigator	% POS	A11	A25	A26	A29	A34	A66					Other	% POS	A11	A25	A26	A32	A34	A66					Other	Method
Reed, Elaine F. PhD	66	+	+	+	+	+	+						92	+	+	+	+	+	+					B53,B35	Other
Eckels/CPMC,	96												99												FC

Other = PRA

FC = Flow cytometry

	**** Serum 1199 ****											**** Serum 1200 ****													
Investigator	% POS	A1	A11	A26	A29	A3	A30					Other	% POS	A1	A11	A23	A25	A26	A34					Other	Method
Reed, Elaine F. PhD	94	+	+	+	+	+	+					A66,A31,A33,A80	96	+	+	+	+	+	+					A66,A36,A80,B8	Other
Eckels/CPMC,	99												99												FC

	**** Serum 1197 ****											**** Serum 1198 ****																		
Investigator	% POS	A25	A26	A29	A34	A66	B57	B58	B63			Other	% POS	A11	A25	A26	A66	B35	B50	B51	B53	B63	B72	B75	B78	A32	B18	B52	Other	Method
Esteves Kondo, Det	20	+	+	+	+	+	+	+	+			A11,B54,B55,A80 >	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B61,B48,B62 >	Elisa
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+					+	+	+	+	+	+	+	+	+	+	+	+	+	+		Elisa	

	**** Serum 1199 ****											**** Serum 1200 ****																							
Investigator	% POS	A1	A11	A25	A26	A29	A3	A30	A31	A33	A34	A36	A66	A74	A80	B18	Other	% POS	A1	A11	A23	A25	A26	A34	A36	A66	A80	B18	B35	B37	B39	B41	B42	Other	Method
Esteves Kondo, Det	86	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B60,B61,B48 >	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B60,B61,B48 >	Elisa
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,B48,B78 >		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B60,B61,B48 >	Elisa

**Table 29. Individual laboratory results for Serum #1197 by Luminex - class II**

Investigator	**** Serum 1197 ****																					Method																			
	% POS	DR10	DR11	DR13	DR14	DP14	DP17	DP18	DP28	DPW2	DPW3	DR52	DR12	DR17	DR18	DR7	DP10	DP20	DP9	DPW6	DR9		DQ7	DQ9	DPW4	DQ6	DQ8	DP402	DPW1	Other											
Abu Amin, Noryati	Multi	+	+	+	+								+	+	+	+						+	+																		
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*01:03, DPB1*04:02	
Bengochea, Carrette	37	+	+	+	+	+	+	+	+	+	+	+	+	+		+						+				+			+										DR3,DR1404		
Cecka, J. Michael P	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQB1*06:03, DQB1*06:01		
Daniel, Dolly	21	+	+	+		+	+	+	+	+	+	+													+	+												DR3			
Dunckley, Heather	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ2		
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+					+	+									DQA1*01:03, DRB1*09:01		
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ2,DPW5		
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hamdi, Nuha	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPW5		
Keming, Du	28	+	+	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
McCluskey, James	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR103,DR3,DR4,DR6 >	
Pancoska, Carol Ph	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Permpikul, Vejbaesy	44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Pule, Ziningi	44	+	+	+	+									+																									DQ3,DQ4		
Reed, Elaine F. PhD	46	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DRB1*09:01, DQB1*06:01, DQB1*06:03		
Rosen-Bronson, Sar		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DRB1*09:01, DQB1*06:01, DQB1*06:03, DQB1*06:01, DQA1*05		
V.Brouard, M.Tonye	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		



**Table 30. Individual laboratory results for Serum #1198 - 1200 by Luminex - class II**

Investigator	**** Serum 1198 ****								**** Serum 1199 ****								**** Serum 1200 ****					Method		
	% POS	DR4	DR15	DR16	DPW1	DR51	DPW5	Other	% POS	DP18	DR103	DR14	DR18	DPW3	DR12	DPW1	Other	% POS	DQ2	DR7	DR52		Other	
Abu Amin, Noryati	Multi	+	+						0									Multi	+					LMX
Arnold, Paula PhD		+	+	+					0										+				DQA1*05:01	LMX
Bengochea, Carrette																		6	+	+				LMX
Cecka, J. Michael P	0								0									23	+					LMX
Chen, Dong-Feng P		+	+	+															+	+			DRB3*03:01	LMX
Daniel, Dolly	1	+							0									5	+					LMX
Dunckley, Heather	55	+	+	+					0									41	+	+	+		DR18	LMX
Eckels/CPMC,		+	+	+															+					LMX
Fort, Marylise		+	+	+	+	+	+	DQ7,DQ8,DQ9,DP14																LMX
Hahn, Amy B. PhD		+	+	+						+	+	+	+	+	+	+	DR1,DR4,DR8,DR9 >		+	+				LMX
Hamdi, Nuha	3	+	+	+	+				60	+	+	+	+	+	+	+	DR7	26	+	+				LMX
Holdsworth, Rhonda		+	+	+	+	+	+	DQA1*05, DQB1*06:03, DQB1*06:01											+	+	+		DR18,DQ5, DQB1*05:01, DRB3*03:01	LMX
Keming, Du																		5	+					LMX
Liu, Chang MD, PhD		+	+	+															+					LMX
McCluskey, James	64	+	+	+	+	+	+	DR2	22									48	+	+	+		DR18	LMX
Pancoska, Carol Ph	23	+	+	+		+			97									31	+	+				LMX
Permpikul, Vejbaesy																		26	+	+				LMX
Pule, Ziningi	11	+	+	+					0									6		+				LMX
Reed, Elaine F. PhD	9	+	+	+					0									7	+	+			DRB3*03:01	LMX
Rosen-Bronson, Sar		+	+	+															+					LMX
V.Brouard, M.Tonye	34	+	+	+	+				0									26	+	+	+		DR18	LMX
Vather/JHB,		+	+	+															+	+				LMX
Vather/Pinetown,		+	+	+					0										+	+	+		DR3	LMX

**Table 31. Individual laboratory results for Serum #1198 - 1200 by NIH, Flow Cytometry, C1q, and Other - class II**

Investigator	**** Serum 1197 ****							**** Serum 1198 ****			**** Serum 1999 ****			**** Serum 1200 ****			Method	
	% POS	DR13						Other	% POS		Other	% POS		Other	% POS			Other
Claas, F.H.J.	50	+							NT			NT			NT			STD
Reed, Elaine F. PhD	60								0			84			64			EXT

STD= NIH-Standard  
EXT = NIH-Extended

Investigator	**** Serum 1197 ****								**** Serum 1198 ****			**** Serum 1999 ****			**** Serum 1200 ****			Method	
	% POS	DP17	DP18	DP20	DP28	DPW3	DPW4	DPW6	Other	% POS		Other	% POS		Other	% POS			Other
Ekckels/CPMC	96									28			0			29			FC
Liu, Chang MD, PhD		+	+	+	+	+	+	+		NT			NT			NT			C1q

FC = Flow Cytometry

Investigator	**** Serum 1197 ****							**** Serum 1198 ****			**** Serum 1999 ****			**** Serum 1200 ****			Method		
	% POS	DR13	DR10	DR11	DR12	DR14	DR17	Other	% POS	DR15	DR16	Other	% POS		Other	% POS		DQ2	DR7
Reed, Elaine F. PhD	70	+	+	+	+	+	+	DR7,DR18	17	+	+		0			27	+	+	Other

Other = PRA

**NEXT MAILING DATE: August 3, 2016**

*Arlene Locke, David Gjertson, Qiheng Zhang, and Elaine F. Reed*

1198	method	#labs	A25	NEG	A26	A66	A6601	A6602	A34	A11	A1101	A1102	B35	B53	B51	B81	B18	B56	B57	B50	B75	B63	B72	B78	B52	B46	B61	B62	B71	A32	A24	A2403	
class I	NIH-Std	4	50	25																													
	NIH-Ext	3	100		100	67																											
	AHG	2	100		50		50		50				50	50	50	50																	
	Luminex	28	100		100	79	36	36	100	79	32	32	100	96	82	50	96	96	75	86	86	79	79	79	82	79	71	86	86	96	96	32	
	Flow	1	no consensus																														
	ELISA	2	100		100	100			50	100			100	100	100	50	100	50	50	100	100	100	100	100	100	50	50	50	50	100	50		
	C1q	1	no consensus																														
	Other	1	no consensus																														
1198	method	#labs	B48	B58	B59	B7	B73	B77	B49	A43	A1	A23	A36	A80	A68	A33	Cw4	Cw6	Cw18	Cw7	Cw15	B60	B67	B37	B76	B54	B39	B41	B59				
	Luminex	28		71	39		89	86	82	89	86	86	86	79	71	50	86	86	86	68	46	75	71	61	57	46	43	39	39				
	ELISA	2	50	50	50	50																											

1198	method	#labs	DR4	DR15	DR16	DPw1	DR51	DPw5	
class II	NIH-Ext	1	no consensus						
	Luminex	20	95	90	85	25	20	15	
	Flow	1	no specificities assigned						
	Other	1	no consensus						

For **Serum 1198**, strong anti-A25 reactivity was reported by all methods. Additional reactivity to other 10C specificities (A26, A66, A34), along with anti-A11, -B35, -B51, -B53, and -B81 reactivity was reported by various methods. Luminex and Elisa also reported strong reactivity to A24, A32, and reactivity to 5C specificities. C-locus reactivity (Cw4, Cw6, Cw7, Cw15, and Cw18) was also reported by Luminex. For class II, strong reactivity to DR4, DR15, and DR16 was reported by Luminex.

1199	method	#labs	A11	A1101	A1102	A3	A25	A26	A34	A66	A6601	A6602	A29	A30	A31	A33	A74	A19	A1	B35	B64	B65	B7	B8	B18	B41	B42	B45	B50	B55	B60	B48	B53	B61	B62	
class I	NIH-Std	4	75			50	25	25	25	25								25																		
	NIH-Ext	2	50					50						50			50																			
	AHG	2	100			100	100	100	100	50	50		100	100	100	100	100		50	50	50	50														
	Luminex	27	78	33	33	100	96	96	96	74	37	37	96	100	96	100	96	100	96	96	81	81	96	96	93	93	93	93	93	93	93	89	89	89	89	
	Flow	1	no consensus																																	
	ELISA	2	100			100	100	100	100				100	100	100	100	100		100	100			100	100	100	100	100	100	100	100	100	100	100	100	100	
	C1q	1	no consensus																																	
	Other	1	no consensus																																	
1199	method	#labs	B72	B75	B78	B81	A36	A80	A32	A43	B67	B71	B54	B56	B76	B39	B3901	B77	B8101	B51	A24	A2403	B82	B27	B2708	Cw18	Cw6	Cw4	Cw15	Cw2	Cw5	Cw17	A23	B46	Bw6	
	AHG	2							50																											
	Luminex	27	89	89	74	74	96	96	26	93	93	93	89	89	85	75	22	74	22	74	70	22	70	63	44	59	59	56	52	52	52	37	33	26	22	
	ELISA	2	100	100	100	100	100	100																												

1199	method	#labs	NEG				
class II	NIH-Ext		no specificities assigned				
	Luminex	13	69				
	Flow	1	no consensus				
	Other	1	no consensus				

**Serum 1199** was strongly positive to A11 by all methods. In addition, reactivity to other 1C specificities and a number of 10C specificities was reported by various methods. Strong reactivity to 5C and 7C specificities was also reported by Luminex and Elisa. Allele level reactivity to B\*51:02 was reported by a number of (n=5) labs reporting by Luminex. This sample was reported as negative for class II.

1200	method	#labs	A1	A11	A1101	A1102	A23	A24	A26	A34	A25	A66	A6601	A36	B8	B35	B7	A80	B38	B51	Bw6	B18	B37	B39	B3901	B41	B42	B54	B55	B56	B59	B62	B67	B45	B50		
class I	NIH-Std	4	100	75			25	25	25	25	75			25	50																						
	NIH-Ext	3	67	100			33	67	100	100	100	67			67		33																				
	AHG	2	100	100			100	100	100	100	50	50		50	50	50			50	50	50																
	Luminex	27	100	78	33	33	100	96	96	96	96	70	33	96	100	96	100	100	70	81	30	96	81	78	26	96	96	96	96	96	96	96	93	96	89	89	
	Flow	1	no consensus																																		
	ELISA	2	100	100			100		100	100	100			100		100	100	100				100	100	100		100	100	100	100	100	100	100	100	100	100	100	
	C1q	1	no consensus																																		
	Other	1	no consensus																																		
1200	method	#labs	B60	B61	B64	B65	B14	B71	B75	B78	B48	B52	A32	B73	B72	B76	B82	B77	B53	B81	B8101	B27	B2708	Cw18	Cw6	Cw7	Cw4	Cw17	A43	Cw15	Cw2	Cw5	A33	A3			
class I	NIH-Ext	3					33																														
	AHG	2											50																								
	Luminex	27	89	89	89	89		89	89	85	81			96	89	85	78	74	70	70	22	63	52	96	96	96	74	63	89	41	30	30	56	22			
	ELISA	2	100	100	100	100		100	100	100	100	100																									

1200	method	#labs	DQ2	DR7	DR52	DR18
class II	NIH-Ext		no specificities assigned			
	Luminex	22	95	64	23	18
	Flow	1	no specificities assigned			
	Other	1	no consensus			

For **Serum 1200**, strong anti-A1 and -A11 reactivity was reported by all methods. In addition, all methods reported reactivity to A23, A24, as well as reactivity to 10C specificities. Reactivity to 5C, 7C, 8C, and 12C specificities was also reported by various methods. Allele level reactivity to A\*24:02 was reported by several labs. For class II, strong anti-DQ2 reactivity was reported by Luminex. Additional reactivity to DR7 and DR52 (DRB3\*03:01) was also reported by Luminex.