

SERUM EXCHANGE #561

The results for **Serum Exchange 561 (sera 1237 - 1240)**, are summarized in Tables 33 –38 and individual laboratory results by method are listed

in Tables 39-48. Sera strongly positive to B27 and 12C specificities were examined in this study.

1237	method	#labs	B27	B2708	B7	B47	B13	B60	B61	B51	B53	A24	A2403	A25	A26	A34	A66	A6602	A6601	A32	A68	A2	A203	A23	B44	B42	B81	B8101	B8	B37	B38	B57
class I	NIH-Std	2	50		50																											
	NIH-Ext	2	50			50	50																									
	AHG	3	100		33	67		67		67	57	33		33											33	33						
	Luminex	27	100	43	100	100	100	100	100	96	96	100	32	100	82	96	89	29	25	100	100	96	25	96	100	96	86	29	82	100	100	100
	Flow	3	no specificities assigned																													
	C1q	2	50		100																											
	Other	2	50		50		50	50	50			50		50	50	50	50			50	50	50		50	50	50	50		50			

1237	method	#labs	NEG		
class II	NIH-Ext	1	Undetermined		
	Luminex	15	93		
	Flow	3	67		
	C1q	1	no consensus		
	Other	2	100		

Serum 1237 was reported as positive for B27, with a few Luminex labs reporting allele specific B*27:08 reactivity. Additional reactivity to a number of other 7C specificities was reported by various methods. Reactivity to B51 and B53 was also reported by antiglobulin and Luminex. In addition,

Luminex and Flow PRA reported reactivity to A2, A23, B8, B44, and B81, along with reactivity to a number of 10C specificities. Additional reactivity to a number of 5C and 7C specificities was also reported by Luminex. This sample was reported as negative for class II.

1238	method	#labs	B27	B2708	B7	B13	B42	B44	B47	B55	B56	B60	B61	B67	B48	B81	B8101	B73	B37	A32	B54	B8201	B82	B38	B41	B49	B50	B62	B64	B71	B72	B76	A24	A2403	A23		
class I	NIH-Std	2	100		100	50																															
	NIH-Ext	2	50		50				50																												
	AHG	3	50		50	50	50		50	50	50	50	50	50	50	50																	33	33			
	Luminex	27	100	43	100	100	100	100	100	100	100	100	100	100	96	86	29	100	100	100	100	25	86	100	100	100	100	100	100	100	100	100	96	36	86		
	Flow	3	no specificities assigned																																		
	C1q	2	100		100	50	50	50	100	50	50	50	50	50	50	100		100	100	100	50		50														
	Other	2	50		50	50	50		50	50	50	50	50	50	50																						
1238	method	#labs	B77	B35	B75	Cw2	Cw5	Cw6	Cw15	Cw18	Cw17	Cw4	B18	B59	B65	B45	B52	B39	B3901	B53	B51	B8	A25	A6602	A66	A74	B78	Cw1	Cw8	Cw16	Cw12						
	Luminex	27	93	93	86	96	96	96	93	93	89	89	96	89	96	96	89	86	25	86	82	82	64	46	29	18	46	54	29	21	14						

1238	method	#labs	DQ7	DQ8	DQ9	DR4	DR53	DR9	DR7	DR14	DR10	DQ4	DR1	DQA1*05	DQ2	DQA1*04	DQA1*03	DQA1*06	DQA1*02	DR12	DR51	DR103	DR1404	
class II	NIH-Ext	1	Undetermined																					
	Luminex	24	100	100	100	100	100	100	96	96	83	58	54	50	46	38	33	29	17	17	17	13	8	
	Flow	3	no specificities assigned																					
	C1q	1	no consensus																					
	Other	2	50	50	50	50		50	50		50													

For **Serum 1238**, anti-B27 and -B7 reactivity was reported by all methods, with some Luminex labs reporting allele specific B*27:08 reactivity. Additional reactivity to B37, A32, and number of 7C specificities was reported by various methods. In addition, Luminex reported reactivity to A23, A24, as well as reactivity to 5C, 8C, and C-locus (Cw2, Cw4, Cw5, Cw6, Cw15,

Cw17, Cw18) specificities. For class II, reactivity to DQ7, DQ8, DQ9, DR4, DR7, and DR9 was reported by Luminex and Flow PRA. Additional strong DR14 and DR53 reactivity was also reported by Luminex. This sample was reported as negative for class II by C1q.

1239	method	#labs	B44	B45	B49	B50	B60	B61	B7	B13	B41	B27	B47	B48	B73	Cw2	Cw17	B81	B8101	A66	A6602	B62	B67	B55	Cw10	Cw9	
class I	NIH-Std	2	100	50	50	50	100	100	100	50																	
	NIH-Ext	2	100	100	100	100	100	50	50	50	100																
	AHG	3	100	100	100	100	100	100	100	100	67	100	67														
	Luminex	27	100	100	100	100	100	100	100	100	100	100	100	100	100	100	96	89	25	71	57	100	96	93	86	86	
	Flow	3	no specificities assigned																								
	C1q	2	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		50	50						
	Other	2	50	50	50	50	50	50	50	50	50	50	50	50													
1239	method	#labs	B38	B39	B3901	B42	B72	B37	B46	B76	B57	B71	Cw15	B59	Cw5	Cw8	Cw1	Cw16	B56	Cw18	B2708	Cw12	B63	Cw14	A68	A74	A2
	Luminex	27	86	75	14	82	82	75	75	71	68	68	68	64	61	61	57	54	50	50	43	32	25	25	21	18	14

1239	method	#labs	NEG	DP11	DQ7
class II	NIH-Ext	1	Undetermined		
	Luminex	20		55	10
	Flow	3	100		
	C1q	1	no consensus		
	Other	2	100		

Serum 1239 was reported as positive for B44, B45, B49, B50, B60, B61, B7, and B13 by all methods. In addition, anti-B41, -B27, -B47, and -B48 reactivity was reported by various methods. Additional reactivity to B73, Cw2, Cw17, B81, and A66 was reported by Luminex and C1q, with some Luminex labs reporting allele specific reactivity to B*81:01 and A*66:02. Reactivity to B38, B39, as well as reactivity to a number of 5C and 7C specificities, was also reported by Luminex. For class II, a number (n=11) of Luminex labs reported anti-DP11 reactivity in this sample. Interestingly, 7 Luminex labs, along with Flow PRA, C1q, and flow cytometry reported this sample as negative for class II.

For class II, a number (n=11) of Luminex labs reported anti-DP11 reactivity in this sample. Interestingly, 7 Luminex labs, along with Flow PRA, C1q, and flow cytometry reported this sample as negative for class II.

1240	method	#labs	B44	B45	B49	B50	B62	B72	B71	B70	B35	B75	B41	B13	B18	B60	B61	B48	B63	NEG	B38	B53	B76	B77	B47	B51	B52	B78	B37	B56	B64	B59	B39	B57	B58	B65	B8	B46	B82	B3901	B7801	Cw5	Cw9	Cw10																	
class I	NIH-Std	2	100	50																																																									
	NIH-Ext	2	100	100	100	100	100	50	50		50																																																		
	AHG	3	100	100	67	67	67	67		67		67	33														33																																		
	Luminex	26	100	100	100	100	100	100	96		100	96	100	96	96	96	96	88	88		100	100	100	100	96	96	96	92	88	88	88	88	81	81	77	73	69	69	42	27	19	15	15	15																	
	Flow	3	no specificities assigned																																																										
	C1q	2																		50																																									
	Other	2	50	50	50	50	50	50	50		50	50	50	50	50	50	50	50	50																																										

1240	method	#labs	DR103	DR51	DR7	DR1	DR9	DR53	DR10	DQ6	DP11	DP13	DP14	DP18	DP9	DPA1*01	DPA1*03	DPw1	DPw2	DPw3	DPw4	DPw5	DPw6	DP15	DP19	DPA1*04	DR4
class II	NIH-Ext	1	Undetermined																								
	Luminex	22	77	77	77	68	55	45	33	17	13	13	13	13	13	13	13	13	13	13	13	13	13	9	9	9	9
	Flow	3	no specificities assigned																								
	C1q	1	no consensus																								
	Other	2	no specificities assigned																								

For **Serum 1240**, strong anti-B44 and B45 reactivity was reported. Additional reactivity to a number of 5C specificities was reported by various methods. Luminex and flow PRA also reported anti-B13, -B41, -B60, -B61, and -B48 reactivity. Additional reactivity to other 7C specificities, as well as to 8C

specificities, was reported by Luminex. C1q reported this sample as negative for class I. For class II, anti-DR103, -DR51, and -DR7 reactivity was reported by 77% of Luminex labs. Two Luminex labs and 1 C1q lab reported this sample as negative for class II.

NEXT MAILING DATE: March 7, 2018

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Table 33. Summary of the 561st Serum Exchange (Serum #1237-1240) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B27	50%	100%	B27	100%	100%	B44	100%	100%	B44	100%	100%
B7	50%	100%	B7	100%	100%	B60	100%	100%	B45	50%	100%
			B13	50%	100%	B61	100%	100%			
						B7	100%	100%			
						B13	50%	100%			
						B45	50%	100%			
						B49	50%	100%			
						B50	50%	100%			

Method: NIH-Extended											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	50%	100%	B27	50%	100%	B41	100%	100%	B44	100%	100%
B27	50%	100%	B47	50%	100%	B44	100%	100%	B45	100%	100%
B47	50%	100%	B7	50%	78%	B49	100%	100%	B49	100%	100%
						B50	100%	100%	B50	100%	100%
						B60	100%	100%	B62	100%	100%
						B45	100%	67%	B71	50%	100%
						B13	50%	100%	B72	50%	100%
						B61	50%	100%	B35	50%	86%
						B7	50%	56%			

Table 34. Summary of the 561st Serum Exchange (Serum #1237-1240) by Antiglobulin and Other - class I

Method: Antiglobulin											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B27	100%	100%	B27	100%	100%	B13	100%	100%	B44	100%	100%
B47	67%	100%	B7	100%	100%	B27	100%	100%	B45	100%	100%
B53	67%	100%	B13	67%	100%	B45	100%	100%	B49	67%	100%
B60	67%	100%	B37	67%	100%	B49	100%	100%	B50	67%	100%
B51	67%	86%	B42	67%	100%	B50	100%	100%	B62	67%	100%
A24	33%	100%	B44	67%	100%	B60	100%	100%	B70	67%	100%
A25	33%	100%	B47	67%	100%	B61	100%	100%	B72	67%	100%
A28	33%	100%	B55	67%	100%	B7	100%	100%	B75	67%	100%
A32	33%	100%	B60	67%	100%	B44	100%	89%	B46	33%	100%
A68	33%	100%	A23	33%	100%	B41	67%	100%	B41	33%	50%
B7	33%	100%	A24	33%	100%	B47	67%	100%	B52	33%	33%

Method: Other											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A2	50%	100%	B13	50%	100%	B13	50%	100%	B13	50%	100%
A23	50%	100%	B27	50%	100%	B27	50%	100%	B18	50%	100%
A24	50%	100%	B42	50%	100%	B41	50%	100%	B35	50%	100%
A25	50%	100%	B47	50%	100%	B44	50%	100%	B41	50%	100%
A26	50%	100%	B48	50%	100%	B45	50%	100%	B44	50%	100%
A32	50%	100%	B55	50%	100%	B47	50%	100%	B45	50%	100%
A34	50%	100%	B56	50%	100%	B48	50%	100%	B48	50%	100%
A66	50%	100%	B60	50%	100%	B49	50%	100%	B49	50%	100%
A68	50%	100%	B61	50%	100%	B50	50%	100%	B50	50%	100%
B13	50%	100%	B67	50%	100%	B60	50%	100%	B60	50%	100%
B27	50%	100%	B7	50%	100%	B61	50%	100%	B61	50%	100%
B42	50%	100%	B81	50%	100%	B7	50%	100%	B62	50%	100%
B44	50%	100%							B63	50%	100%
B60	50%	100%							B71	50%	100%
B61	50%	100%							B72	50%	100%
B7	50%	100%							B75	50%	100%
B8	50%	100%									
B81	50%	100%									

Table 35. Summary of the 561st Serum Exchange (Serum #1237-1240) by C1q and Flow Cytometry - class I

Method: C1q											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B7	100%	100%	A32	100%	100%	B13	100%	100%	NEG	50%	100%
B27	50%	100%	B27	100%	100%	B27	100%	100%			
			B37	100%	100%	B41	100%	100%			
			B47	100%	100%	B44	100%	100%			
			B7	100%	100%	B45	100%	100%			
			B73	100%	100%	B47	100%	100%			
			B81	100%	100%	B48	100%	100%			
			B13	50%	100%	B49	100%	100%			
			B42	50%	100%	B50	100%	100%			
			B44	50%	100%	B60	100%	100%			
			B48	50%	100%	B61	100%	100%			
			B54	50%	100%	B7	100%	100%			
			B55	50%	100%	B73	100%	100%			
			B56	50%	100%	B81	100%	100%			
			B60	50%	100%	Cw17	100%	100%			
			B61	50%	100%	Cw2	100%	100%			
			B67	50%	100%	A66	50%	100%			
			B82	50%	100%	A6602	50%	100%			

Method: Flow Cytometry											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

Table 36. Summary of the 561st Serum Exchange (Serum #1237-1240) by Luminex - class I

Method: Luminex											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
28 typing Labs			28 typing Labs			28 typing Labs			26 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A24	100%	100%	A32	100%	100%	B13	100%	100%	B35	100%	100%
A25	100%	100%	B13	100%	100%	B27	100%	100%	B38	100%	100%
A32	100%	100%	B27	100%	100%	B41	100%	100%	B41	100%	100%
A68	100%	100%	B37	100%	100%	B44	100%	100%	B44	100%	100%
B13	100%	100%	B38	100%	100%	B45	100%	100%	B45	100%	100%
B27	100%	100%	B41	100%	100%	B47	100%	100%	B49	100%	100%
B37	100%	100%	B42	100%	100%	B48	100%	100%	B50	100%	100%
B38	100%	100%	B44	100%	100%	B49	100%	100%	B53	100%	100%
B44	100%	100%	B47	100%	100%	B50	100%	100%	B62	100%	100%
B47	100%	100%	B49	100%	100%	B60	100%	100%	B72	100%	100%
B57	100%	100%	B50	100%	100%	B61	100%	100%	B76	100%	100%
B60	100%	100%	B54	100%	100%	B7	100%	100%	B77	100%	100%
B61	100%	100%	B55	100%	100%	B73	100%	100%	B13	96%	100%
B7	100%	100%	B56	100%	100%	B62	100%	80%	B18	96%	100%
B73	100%	100%	B60	100%	100%	Cw2	100%	78%	B47	96%	100%
B63	100%	80%	B61	100%	100%	B67	96%	100%	B51	96%	100%
A2	96%	100%	B62	100%	100%	Cw17	96%	100%	B52	96%	100%
A23	96%	100%	B64	100%	100%	B55	93%	100%	B60	96%	100%
A33	96%	100%	B67	100%	100%	B81	89%	100%	B61	96%	100%
A34	96%	100%	B7	100%	100%	Cw10	86%	100%	B71	96%	100%
A69	96%	100%	B71	100%	100%	Cw9	86%	100%	B75	96%	100%
B42	96%	100%	B72	100%	100%	B38	86%	40%	B78	92%	100%
B49	96%	100%	B73	100%	100%	B42	82%	100%	B37	88%	100%
B51	96%	100%	B76	100%	100%	B72	82%	80%	B48	88%	100%
B52	96%	100%	A24	96%	100%	B37	75%	100%	B56	88%	100%
B53	96%	100%	B18	96%	100%	B39	75%	100%	B64	88%	100%
B55	96%	100%	B48	96%	100%	B46	75%	75%	B63	88%	80%
B58	96%	100%	Cw2	96%	100%	B76	71%	67%	B59	88%	75%
B67	96%	100%	Cw5	96%	100%	A66	71%	50%	B39	81%	100%
B77	96%	100%	Cw6	96%	93%	B57	68%	100%	B57	81%	62%
B59	96%	75%	B65	96%	60%	Cw15	68%	100%	B58	77%	75%
B41	93%	100%	B45	93%	100%	B71	68%	75%	B65	73%	60%
B48	93%	100%	B77	93%	100%	B59	64%	100%	B8	69%	100%
B56	93%	75%	Cw15	93%	100%	Cw5	61%	100%	B46	69%	75%
A66	89%	100%	Cw18	93%	100%	Cw8	61%	100%	B82	42%	100%

Table 36. Summary of the 561st Serum Exchange (Serum #1237-1240) by Luminex - class I

Method: Luminex-cont.											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
27 typing Labs			27 typing Labs			27 typing Labs			26 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B54	86%	100%	B35	93%	83%	A6602	57%	100%	B3901	27%	100%
B81	86%	100%	B59	89%	100%	Cw1	57%	100%	B7801	19%	100%
A26	82%	100%	Cw17	89%	100%	Cw16	54%	100%	Cw5	15%	100%
Cw7	82%	96%	Cw4	89%	100%	B56	50%	100%	Cw9	15%	100%
B8	82%	83%	B52	89%	80%	Cw18	50%	100%	Cw10	15%	50%
B82	79%	100%	A23	86%	100%	B2708	43%	100%			
B39	75%	100%	B39	86%	100%	Cw12	32%	100%			
A29	54%	100%	B81	86%	100%	B63	25%	100%			
Cw17	54%	100%	B82	86%	100%	B8101	25%	100%			
B2708	43%	100%	B75	86%	71%	Cw14	25%	100%			
A30	39%	50%	B53	86%	67%	A68	21%	100%			
A2403	32%	100%	B51	82%	100%	A74	18%	100%			
A43	32%	100%	B8	82%	83%	A2	14%	100%			
B45	32%	100%	A25	64%	100%	B3901	14%	100%			
A31	29%	100%	Cw1	54%	100%						
A6602	29%	100%	A6602	46%	100%						
B8101	29%	100%	B78	46%	100%						
Bw4	29%	100%	B2708	43%	100%						
A203	25%	100%	A2403	36%	100%						
A6601	25%	100%	B8101	29%	100%						
A74	25%	100%	Cw8	29%	100%						
B18	25%	100%	A66	29%	50%						
B76	21%	100%	B3901	25%	100%						
B8201	21%	100%	B8201	25%	100%						
Cw2	21%	100%	Cw16	21%	100%						
			A74	18%	100%						
			Cw12	14%	100%						

Table 37. Summary of the 561st Serum Exchange (Serum #1237-1240) by various methods - class II

Method: NIH-Extended												
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1235 ***			*** Serum 1236 ***			
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 specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned			
Method: Other												
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1235 ***			*** Serum 1236 ***			
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
NEG	100%	100%	DQ7	50%	100%	NEG	100%	100%	no specificities assigned			
			DQ8	50%	100%							
			DQ9	50%	100%							
			DR10	50%	100%							
			DR4	50%	100%							
			DR7	50%	100%							
			DR9	50%	100%							
Method: C1q												
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1235 ***			*** Serum 1236 ***			
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: Flow Cytometry												
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1235 ***			*** Serum 1236 ***			
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
NEG	67%	100%	no specificities assigned			NEG	100%	100%	no specificities assigned			

Table 38. Summary of the 561st Serum Exchange (Serum #1237-1240) by Luminex - class II

Method: Luminex											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
15 typing Labs			24 typing Labs			20 typing Labs			22 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NEG	93%	100%	DQ7	100%	100%	DP11	55%	50%	DR103	77%	100%
DQ5	7%	100%	DQ8	100%	100%	DQ7	10%	100%	DR51	77%	100%
			DQ9	100%	100%	DPA1*02	5%	100%	DR7	77%	75%
			DR4	100%	100%	DPw5	5%	100%	DR1	68%	100%
			DR53	100%	100%	DQ4	5%	100%	DR9	55%	100%
			DR9	100%	100%				DR53	45%	100%
			DR7	96%	100%				DR10	33%	100%
			DR14	96%	80%				DQ6	17%	17%
			DR10	83%	100%				DP11	13%	100%
			DQ4	58%	50%				DP13	13%	100%
			DR1	54%	100%				DP14	13%	100%
			DQA1*05	50%	100%				DP18	13%	100%
			DQ2	46%	40%				DP9	13%	100%
			DQA1*04	38%	100%				DPA1*01	13%	100%
			DQA1*03	33%	100%				DPA1*03	13%	100%
			DQA1*06	29%	100%				DPw1	13%	100%
			DQA1*02	17%	100%				DPw2	13%	100%
			DR12	17%	100%				DPw3	13%	100%
			DR51	17%	100%				DPw4	13%	100%
			DR103	13%	100%				DPw5	13%	100%
			DQ3	8%	100%				DPw6	13%	100%
			DR1404	8%	100%				DP15	9%	100%
			DR13	4%	100%				DP19	9%	100%
			DR52	4%	100%				DPA1*04	9%	100%
									DR4	9%	100%
									DP401	4%	100%
									DP402	4%	100%
									DQ2	4%	100%
									DQ4	4%	100%
									DQ5	4%	100%
									DQ7	4%	100%
									DQ8	4%	100%
									DQ9	4%	100%
									DQA1*01	4%	100%
									DR15	4%	100%
									DR52	4%	100%

Table 39. Individual laboratory results for Serum #1237-1240 by NIH-Standard and NIH-Extended - class I

Investigator	**** Serum 1237 ****					**** Serum 1238 ****					**** Serum 1239 ****							**** Serum 1240 ****						Method			
	Ctr	% POS	B27	B7	Other	Ctr	% POS	B27	B7	B13	Other	Ctr	% POS	B44	B60	B61	B7	B45	B49	Other	Ctr	% POS	B44		B45	Other	
McCluskey, James	3582	19	+			3582	44	+	+			3582	53	+	+	+	+				3582	28	+				STD
Vasilescu, Rodica	786	8		+		786	12	+	+	+		786	42	+	+	+	+			B50,B13	786	20	+	+			STD

Investigator	**** Serum 1237 ****					**** Serum 1238 ****					**** Serum 1239 ****							**** Serum 1240 ****						Method						
	Ctr	% POS	B13	B27	B47	Other	Ctr	% POS	B27	B47	B7	Other	Ctr	% POS	B41	B44	B49	B50	B60	B45	Other	Ctr	% POS		B44	B45	B49	B50	B62	Other
Lardy, N.M.	725	24	+	+	+		725	35	+	+	+		725	61	+	+	+	+	+	+	B7	725	53	+	+	+	+	+	B35	EXT
Reed, Elaine F. PhD	3753	3					3753	3					3753	45	+	+	+	+	+	+	B61,B13	3753	37	+	+	+	+	+	B71,B72	EXT

Table 40. Individual laboratory results for Serum #1237-1240 by Antiglobulin and Other - class I

**** Serum 1237 ****														**** Serum 1238 ****														
Investigator	Ctrl	% POS	B27	B47	B53	B60	B51	B7						Other	Ctrl	% POS	B27	B7	B13	B37	B42	B44	B47	B55	B60		Other	Method
Cecka, J. Michael P	774	85	+	+	+	+	+							A24,B49,B13,B44 >	774	80	+	+	+	+	+	+	+	+	+		A24,B50,B56,A32 >	Antiglobulin
Hahn, Amy B. PhD	910		+	+	+	+	+								910		+	+			+	+	+	+	+		B72	Antiglobulin
Vasilescu, Rodica	786	15	+					+							786	17	+	+	+	+								Antiglobulin

**** Serum 1239 ****														**** Serum 1240 ****														
Investigator	Ctrl	% POS	B13	B27	B45	B49	B50	B60	B61	B7	B44	B41	B47	Other	Ctrl	% POS	B44	B45	B49	B50	B62	B70	B72	B75		Other	Method	
Cecka, J. Michael P	774	56	+	+	+	+	+	+	+	+	+	+	+	B48,B81	774	50	+	+	+	+	+	+	+	+		B52,B41	Antiglobulin	
Hahn, Amy B. PhD	910		+	+	+	+	+	+	+	+	+	+	+		910		+	+	+	+	+	+	+	+		B46	Antiglobulin	
Vasilescu, Rodica	786	83	+	+	+	+	+	+	+	+	+				786	12	+	+									Antiglobulin	

**** Serum 1237 ****														**** Serum 1238 ****														
Investigator	Ctrl	% POS	A2	A23	A24	A25	A26	A32	A34	A66	A68	B13	B7	Other	Ctrl	% POS	B13	B27	B42	B47	B48	B55	B56	B60	B61	B67	Other	Method
Liu, Chang MD, PhD	2400	98													2400	96												Other
Reed, Elaine F. PhD	3753	88	+	+	+	+	+	+	+	+	+	+	+	B60,B61,B44,B27 >	3753	78	+	+	+	+	+	+	+	+	+	+	B7,B81	Other

**** Serum 1239 ****														**** Serum 1240 ****														
Investigator	Ctrl	% POS	B13	B27	B41	B44	B45	B47	B48	B49	B50	B60	B7	Other	Ctrl	% POS	B13	B18	B35	B41	B44	B45	B48	B49	B50	B60	Other	Method
Liu, Chang MD, PhD	2400	75													2400	93												Other
Reed, Elaine F. PhD	3753	60	+	+	+	+	+	+	+	+	+	+	+	B61	3753	66	+	+	+	+	+	+	+	+	+	+	B61,B62,B75,B63 >	Other

Table 41. Individual laboratory results for Serum #1237-1240 by C1q and Flow Cytometry - class I

**** Serum 1237 ****														**** Serum 1238 ****												
Investigator	Ctr	% POS	B7	B27	Other									Other	Ctr	% POS	A32	B27	B37	B47	B7	B73	B81	Other	Method	
Colombe, Beth W. F	3632	3	+	+											3632	23	+	+	+	+	+	+	+	+	B60,B61,B48,B13 >	C1q
Liu, Chang MD, PhD	2400		+												2400		+	+	+	+	+	+	+		C1q	

**** Serum 1239 ****																	**** Serum 1240 ****											
Investigator	Ctr	% POS	B13	B27	B41	B44	B45	B47	B48	B49	B50	B60	B61	B7	B73	B81	Cw17	Cw2	Other	Ctr	% POS						Other	Method
Colombe, Beth W. F	3632	22	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A6602	3632	0							C1q
Liu, Chang MD, PhD	2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66	2400								C1q

**** Serum 1237 ****														**** Serum 1238 ****												
Investigator	Ctr	% POS												Other	Ctr	% POS									Other	Method
Chen, Dong-Feng P	3224	92													3224	100										FC
Gebel, Howard PhD	5214	96													5214	99										FC
Marino, Susana R.	8067	93													8067	93										FC

**** Serum 1239 ****														**** Serum 1240 ****												
Investigator	Ctr	% POS												Other	Ctr	% POS									Other	Method
Chen, Dong-Feng P	3224	90													3224	96										FC
Gebel, Howard PhD	5214	89													5214	96										FC
Marino, Susana R.	8067	90													8067	98										FC

FC = Flow Cytometry

Table 44. Individual laboratory results for Serum #1239 Luminex - class I

		**** Serum 1239 ****																																																	
Investigator	Ctr	% POS	B13	B27	B41	B44	B45	B47	B48	B49	B50	B60	B61	B7	B73	B62	Cw2	B67	Cw17	B55	B81	Cw10	Cw9	B38	B42	B72	B37	B39	B46	B76	A66	B57	Cw15	B71	B59	Cw5	Cw8	A6602	CW1	CW16	B56	CW18	B2708	Other	Method						
Al-Atlas, Rabab	8062	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63	LMX			
Arnold, Paula Pl	5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B3901	LMX			
Bengochea, Car	8045	25	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,Cw7	LMX		
Cecka, J. Micha	774	67	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Chen, Dong-Fer	3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,Cw12	LMX		
Colombe, Beth	3632	90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Daniel, Dolly	5219	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B21,B703 >	LMX		
Du, Keming	8086	40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Dunckley, Heatr	3766	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A74,A68,B63 >	LMX		
Fort, Marylise	4079		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A68,Cw12	LMX		
Gebel, Howard	5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B70	LMX		
Hahn, Amy B. P	910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A68	LMX		
Hamdi, Nuha	810	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw14,Cw12	LMX		
Hogan, Patrick	3808	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101	LMX		
Holdsworth, Rho	615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,B75,A74,A68 >	LMX		
Lardy, N.M.	725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Liu, Chang MD,	2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Mayne, Elizabet	8103	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B703,B8101 >	LMX		
McCluskey, Jam	3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,B75,A25,A31 >	LMX	
Pancoska, Caro	54	78	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Permpikul, Vejb	3966	47	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63	LMX		
Pule, Ziningi	8058	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A74,Cw14,Cw12	LMX	
Reed, Elaine F.	3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Sacchi, Nicoletta	8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B12C,B7C	LMX		
V.Brouard, M.Tc	8048	64	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B3901	LMX	
Vasilescu, Rodic	786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,B3901	LMX	
Vather/JHB,	4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A74,A68,A69 >	LMX	
Vather/Pinetowr	8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63,Cw14,Cw12	LMX

Table 46. Individual laboratory results for Serum #1240 by various methods - class II

**** Serum 1237 ****				**** Serum 1238 ****								**** Serum 1239 ****				**** Serum 1240 ****						
Investigator	Ctr	% POS	Other	Ctr	% POS							Other	Ctr	% POS			Other	Ctr	% POS	Other	Method	
Reed, Elaine F. PhD	3753	25		3753	9								3753	55				3753	77			Ext

**** Serum 1237 ****				**** Serum 1238 ****								**** Serum 1239 ****				**** Serum 1240 ****							
Investigator	Ctr	% POS	Other	Ctr	% POS	DQ7	DQ8	DQ9	DR10	DR4	DR7	DR9	Other	Ctr	% POS			Other	Ctr	% POS	Other	Method	
Liu, Chang MD, PhD	2400	0		2400	80									2400	0				2400	26			Other
Reed, Elaine F. PhD	3753	0		3753	80	+	+	+	+	+	+	+		3753	0				3753	7			Other

Other = Flow PRA

**** Serum 1237 ****				**** Serum 1238 ****								**** Serum 1239 ****				**** Serum 1240 ****							
Investigator	Ctr	% POS	Other	Ctr	% POS								Other	Ctr	% POS			Other	Ctr	% POS	Other	Method	
Colombe, Beth W.	3632	0		3632	0									3632	0				3632	0			C1q

**** Serum 1237 ****				**** Serum 1238 ****								**** Serum 1239 ****				**** Serum 1240 ****							
Investigator	Ctr	% POS	Other	Ctr	% POS								Other	Ctr	% POS			Other	Ctr	% POS	Other	Method	
Chen, Dong-Feng P	3224	0		3224	86									3224	0				3224	65			FC
Gebel, Howard PhD	5214	13		5214	75									5214	0				5214	61			FC
Marino, Susana R.	8067	0		8067	68									8067	0				8067	62			FC

FC = Flow Cytometry

Table 47. Individual laboratory results for Serum #1237-1238 Luminex - class II

Investigator	**** Serum 1237 ****				**** Serum 1238 ****														Other	Method				
	Ctr	% POS	DQ5	Other	% POS	DQ7	DQ8	DQ9	DR4	DR53	DR9	DR7	DR14	DR10	DQ4	DR1	DQA1*05	DQ2			DQA1*04	DQA1*03	DQA1*06	
Al-Attas, Rabab A. M	8062	0			Multi	+	+	+	+	+	+	+	+	+	+	+	+	+				DR103,DR12,DR13,DR51 >	LMX	
Arnold, Paula PhD	5462					+	+	+	+	+	+	+	+	+			+							LMX
Bengochea, Carrette	8045	0			24	+	+	+	+	+	+	+	+		+			+					DR1404	LMX
Cecka, J. Michael P	774	0			71	+	+	+	+	+	+	+	+											LMX
Chen, Dong-Feng P	3224					+	+	+	+	+	+	+	+			+	+		+	+	+			LMX
Colombe, Beth W. F	3632	0			66	+	+	+	+	+	+	+	+				+	+						LMX
Daniel, Dolly	5219	0			18	+	+	+	+	+	+	+											DQ3	LMX
Du, Keming	8086				25	+	+	+	+	+		+	+					+						LMX
Dunckley, Heather	3766	0			84	+	+	+	+	+	+	+	+	+	+	+	+		+	+				LMX
Fort, Marylise	4079	0				+	+	+	+	+	+	+	+	+	+	+		+						LMX
Gebel, Howard PhD	5214					+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			LMX
Hahn, Amy B. PhD	910					+	+	+	+	+	+	+	+				+		+	+	+	DQA1*02		LMX
Hamdi, Nuha	810	0			71	+	+	+	+	+	+	+	+	+	+	+		+						LMX
Hogan, Patrick	3808	0			25	+	+	+	+	+	+	+	+		+		+		+					LMX
Holdsworth, Rhonda	615	0				+	+	+	+	+	+	+	+	+	+	+		+				DRB1*15:54, DRB1*14:01		LMX
Liu, Chang MD, PhD	2400					+	+	+	+	+	+	+	+				+							LMX
Mayne, Elizabeth	8103	0			19	+	+	+	+	+	+	+											DR1404,DQ3	LMX
McCluskey, James	3582					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR103,DR12,DR51,DQA1*02		LMX
Pancoska, Carol Ph	54					+	+	+	+	+	+	+	+	+	+			+						LMX
Permpikul, Vejbaes	3966				32	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	DQA1*02		LMX
Pule, Ziningi	8058	1	+		22	+	+	+	+	+								+						LMX
Reed, Elaine F. PhD	3753	0				+	+	+	+	+	+		+				+		+	+		DRB1*14:01, DQB1*14:02		LMX
Sacchi, Nicoletta	8100	0				+	+	+	+	+	+	+	+	+	+	+		+						LMX
V.Brouard, M.Tonye	8048	0			71	+	+	+	+	+	+	+	+	+	+	+								LMX
Vather/JHB,	4322					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR103,DR12,DR51,DQA1*02		LMX
Vather/Pinetown,	8082					+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	DR12,DR51		LMX

Table 48. Individual laboratory results for Serum #1239-1240 Luminex - class II

Investigator	**** Serum 1239 ****				**** Serum 1240 ****										Method
	Ctr	% POS	DP11	Other	% POS	DR103	DR51	DR7	DR1	DR9	DR53	DR10	DC6	Other	
Al-Attas, Rabab A. M	8062	Multi	+	DQ7	0										LMX
Arnold, Paula PhD	5462		+												LMX
Bengochea, Carretto	8045	0			0										LMX
Cecka, J. Michael P	774	0			11			+							LMX
Chen, Dong-Feng P	3224					+	+	+	+	+					LMX
Colombe, Beth W. F	3632	1	+	DPA1*02	77	+	+		+	+	+				LMX
Daniel, Dolly	5219	1		DPw5	19	+	+	+	+					DPw1,DPw2,DPw3,DPw4 >	LMX
Du, Keming	8086				13	+	+	+	+	+	+	+	+		LMX
Dunckley, Heather	3766	2	+		76	+	+	+	+		+				LMX
Fort, Marylise	4079	0				+	+	+	+	+	+	+			LMX
Gebel, Howard PhD	5214					+	+	+	+						LMX
Hahn, Amy B. PhD	910		+			+	+	+	+	+	+	+			LMX
Hamdi, Nuha	810	31	+		40	+	+	+	+	+	+	+			LMX
Hogan, Patrick	3808	0			43		+	+					+	DQ5,DPw1,DPw2,DPw3 >	LMX
Holdsworth, Rhonda	615		+			+	+	+	+	+	+	+	+	DR4,DQB1*06:01	LMX
Liu, Chang MD, PhD	2400					+									LMX
Mayne, Elizabeth	8103	0			27		+							DPw1,DPw2,DPw3,DPw4 >	LMX
McCluskey, James	3582														LMX
Pancoska, Carol Ph	54		+			+	+	+	+	+					LMX
Permpikul, Vejbaesy	3966	2	+		13	+	+	+	+	+	+	+			LMX
Pule, Ziningi	8058	3		DQ4,DQ7	32	+	+	+	+	+	+	+	+	DR4,DR15,DR52,DQ2 >	LMX
Reed, Elaine F. PhD	3753	0				+		+							LMX
Sacchi, Nicoletta	8100		+		NT										LMX
V.Brouard, M.Tonye	8048	0			29	+	+	+	+	+					LMX
Vather/JHB,	4322		+			+	+	+	+	+	+	+			LMX
Vather/Pinetown,	8082														LMX