

# SERUM EXCHANGE #562 MAY 9, 2018

Sera	1241-1244
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The results for **Serum Exchange 562 (sera 1241 - 1244)**, are summarized in Tables 16 -22 and individual laboratory results by method are listed in

Tables 23-34. Sera strongly positive to A3, A10, and A11 were examined in this study.

1241	method	#labs	A3	A11	A1101	A1102	A31	A66	A6601	A6602	A25	A26	A34	A29	A30	A32	A68	A69	A28	A33	A74	A36	A43	A24	A2403	A1	Cw12	A23	A80	B18	Cw6	Cw17
class I	NIH-Std	1	no consensus																													
	NIH-Ext	2	100%	100%			100%	100%																								
	AHG	3	100%	100%			100%	100%			100%	67%	67%	67%	67%	67%	67%	33%	33%	100%	67%											
	Luminex	28	100%	82%	36%	36%	100%	86%	32%	32%	100%	100%	100%	100%	100%	100%	100%	100%		100%	100%	96%	96%	89%	36%	86%	68%	18%	100%	96%	54%	50%
	Flow	3	no specificities assigned																													
	C1q	3	100%	100%			100%	67%	33%	33%	100%	100%	100%	100%	100%	100%	100%	100%		100%	100%		100%			67%						
	Other	3	67%	67%			67%	67%			67%	67%	67%	67%	67%	67%	67%	67%		67%		33%		33%		33%	33%					

1241	method	#labs	NEG			
class II	NIH-Ext	1	no specificities assigned			
	Luminex	16	88%			
	Flow	3	100%			
	C1q	2	50%			
	Other	3	67%			

**Serum 1241** was reported as strongly positive to A3, A11, and A10 (A66) by all methods, except Flow. Additional reactivity to other 1C and 10C specificities, as well as reactivity to A28 (A68, A69), was reported

ed by various methods. Allele specific A\*11:01, A\*11:02, A\*66:01, and A\*66:02 reactivity was reported by a few Luminex Labs. This sample was reported to be negative for class II.

1242	method	#labs	A3	B62	B63	A11	A1102	A1101	B72	B71	B56	B49	B50	B75	A1	A24	A2403	Cw10	Cw1	Cw14	Cw9	Cw18	Cw4	B73	B57	B77	A36	A80	B35	B76	B52	B53		
class I	NIH-Std	1	no consensus																															
	NIH-Ext	2	100%																															
	AHG	3	100%	67%	33%	33%			33%		67%	33%	67%	67%	33%	33%		33%																
	Luminex	28	100%	100%	100%	81%	37%	37%	100%	96%	100%	100%	93%	96%	93%	93%	41%	93%	96%	96%	93%	89%	89%	100%	100%	100%	96%	93%	93%	93%	89%	89%		
	Flow	3	no specificities assigned																															
	C1q	3	100%	33%	33%	33%			33%		33%	33%						100%	100%	100%	100%	100%	100%	33%										
	Other	3	67%	67%	67%	67%			67%	67%																								
1242	method	#labs	A32	A29	A30	A31	A33	A25	A26	A23	Cw6	B70	B46	B58	B13	A74	B51	A34	B55	B78	B7801	B45	B44	A43	B61	A66	A6601	A6602	Cw5	Cw15	Cw8	Cw3	Cw403	
	AHG	3	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%																						
	Luminex	28	78%	59%	59%	59%	48%	48%	22%	33%	11%	7%	78%	78%	74%	70%	70%	59%	48%	59%	11%	41%	22%	26%	26%	22%	11%	11%	59%	33%	19%	11%	11%	

1242	method	#labs	DQ6	DQ7	DQ8	DQ9	DR11	DR12	DR13	DR14	DR15	DR16	DR17	DR18	DR8	DR52	DPw3	DPw6	DP18	
class II	NIH-Ext	1	no specificities assigned																	
	Luminex	26	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	96%	96%	92%	
	Flow	3	no specificities assigned																	
	C1q	2	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
	Other	3	67%	67%	67%	67%	67%	67%	67%	67%	67%	67%	67%	67%	67%	33%	33%	33%	33%	
1242	method	#labs	DP28	DPw4	DP10	DP14	DP17	DP9	DP20	DR103	DR4	DP23	DP19	DPA1*01	DPA1*03	DQ4	DR9	DPw1	DP11	DPw2
	Luminex	26	92%	77%	65%	88%	88%	88%	62%	96%	85%	58%	54%	54%	54%	42%	35%	35%	21%	
	C1q	2	100%	50%	50%	50%	50%	50%	100%											100%
	Other	3	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	

For **Serum 1242**, strong anti-A3 reactivity was reported by all methods, except Flow. In addition, reactivity to A1, A11, A24, B56, and reactivity to a number of 5C specificities, was reported by various methods. Allele specific A\*11:01, A\*11:02, and A\*24:03 reactivity was reported by some labs. Additional C-locus reactivity (Cw1, Cw4, Cw9, Cw10, Cw14, Cw18) was also re-

ported by antiglobulin, Luminex, and C1q. For class II, strong DQ, DR, as well as DP reactivity was reported for this sample by Luminex and C1q. Allele specific DRB5\*01:01 reactivity was also detected by a few (n=4) labs.

1243	method	#labs	A25	A26	A34	A11	A1101	A1102	A66	A6601	A6602	A33	A29	A31	A32	A74	A3	A43	A30	A36	A68	A69	A1	B8	B60	B61	B38	B39
class I	NIH-Std	1	no consensus																									
	NIH-Ext	2	100%	100%	100%	100%			100%			50%		50%														
	AHG	3	67%	67%	67%	67%			67%			33%	33%		33%	33%	33%								33%	33%	33%	33%
	Luminex	28	100%	100%	100%	82%	36%	36%	82%	36%	36%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	100%	96%	100%	96%	50%	57%	46%
	Flow	3	no specificities assigned																									
	C1q	3	100%	100%	100%	67%			67%	33%	33%							100%						33%				
	Other	3	67%	67%	67%	67%			67%			67%	67%	67%	67%	33%	67%	33%	67%	33%	67%	67%	33%					
1243	method	#labs	A80	B41	B42	B7	B73	B48	B81	B8101	Cw6	Cw7	Cw18	Cw10	Cw9	B75	B67	B77	B37	B44	B703	B47	B49	Cw2				
	Luminex	28	100%	100%	100%	100%	96%	93%	86%	25%	71%	68%	71%	57%	43%	68%	50%	36%	21%	21%	18%	14%	14%	14%				

1243	method	#labs	DQ7	DQ8	DQ9	DQ6	DR11	DR4	DR8	DR13	DQ4	DR103	DR16	DR15	DR53	DR1404	DR14
class II	NIH-Ext	1	no consensus														
	Luminex	26	100%	100%	100%	46%	100%	100%	100%	92%	27%	38%	85%	42%	35%	23%	8%
	Flow	3	no specificities assigned														
	C1q	2	100%	100%	100%	50%	100%	100%	100%								
	Other	3	67%	67%	67%	33%	67%	67%	67%		33%						

**Serum 1243** was reported as strongly positive to A10 (A25, A26, A34, A66) and A11. Allele specific A\*11:01, A\*11:02, A\*66:01, and A\*66:02 reactivity was reported by some Luminex labs. In addition, reactivity to A32, A74, as well as reactivity to a number of 1C specificities, was reported by

various methods. Additional reactivity to A80 and 7C specificities was reported by Luminex. For class II, reactivity to a number of DQ (DQ6, DQ7, DQ8, DQ9) and DR (DR4, DR8, DR11, DR13) specificities was reported by Luminex and C1q. Allele specific DRB1\*13:03 reactivity was also reported by several labs.

1244	method	#labs	A25	A26	A66	A6601	A6602	A34	A2	A43	B60	B61	A11	A1101	A1102	A1	A36	A69	A68	A33	A29	B47	B7	B42	B81	B8101	Cw5	Cw8	Cw18	Cw6	A80
class I	NIH-Std	1	no consensus																												
	NIH-Ext	2		50%																											
	AHG	3	100%	100%	100%			67%	33%		33%	33%	33%									33%									
	Luminex	28	100%	100%	82%	36%	36%	100%	100%	96%	100%	100%	82%	36%	36%	100%	100%	100%	89%	86%	71%	100%	100%	96%	79%	25%	100%	100%	11%	29%	100%
	Flow	3	no specificities assigned																												
	C1q	3	100%	100%	33%	67%			33%	67%								33%									100%	100%	33%	33%	
	Other	3	67%	67%	67%			67%	67%	33%	67%	67%	67%			33%	33%		33%	33%	33		67%	67%	67%						

  

1244	method	#labs	B27	B2708	B55	B13	B67	B73	B64	B48	B41	B18	B46	B54	B65	B39	B3901	B38	B8	B37	B45	B59	Cw9	Cw10	Cw1	Cw16	Cw14	Cw17	Cw12	A203	B703
	Luminex	28	100%	46%	100%	96%	93%	93%	89%	86%	86%	79%	79%	79%	79%	71%	18%	68%	68%	64%	54%	54%	75%	75%	71%	68%	50%	50%	36%	32%	18%

1244	method	#labs	DQ5	DQ6	DR9	DR14	DR53	DR7	DR10	DR11	DR12	DR13	DR4	DR8	DR17	DR18	DR52	DR1	DR103	DR51	DQ8	DQ9	DQ7	DQA1*03	DQ4	DQA1*01	DPA1*03			
class II	NIH-Ext	1	no specificities assigned																											
	Luminex	26	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%	96%	96%	96%	96%	92%	92%	96%	92%	88%	54%	46%	35%				
	Flow	3	no specificities assigned																											
	C1q	2	50%	100%	100%	50%	50%																							
	Other	3	67%	67%	67%	67%	33%	67%	67%	67%	33%	67%	33%	33%	67%	67%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%

For **Serum 1244**, strong A10 (A26) reactivity was reported by all methods, except Flow. Additional reactivity to A2, A11, A34, A66, and B40 (B60, B61), as well as reactivity to a number of 7C specificities, was reported by various methods. Allele specific A\*11:01, A\*11:02, A\*66:01, and A\*66:02 reactivity was also reported by some labs. For class II, anti-DQ5, -DQ6, -DR9, -

DR14, and -DR53 reactivity was reported by Luminex and C1q. Additional strong reactivity to a number of other DR and DQ antigens was reported by Luminex and PRA.

**NEXT MAILING DATE: August 8, 2018**

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**Table 16. Summary of the 562<sup>nd</sup> Serum Exchange (Serum #1241-1244) by NIH-Standard and NIH-Extended - class I**

Method: NIH-Standard											
<b>*** Serum 1241 ***</b>			<b>*** Serum 1242 ***</b>			<b>*** Serum 1243 ***</b>			<b>*** Serum 1244 ***</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		

Method: NIH-Extended											
<b>*** Serum 1241 ***</b>			<b>*** Serum 1242 ***</b>			<b>*** Serum 1243 ***</b>			<b>*** Serum 1244 ***</b>		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A66	100%	100%	A3	100%	93%	A26	100%	100%	A26	50%	100%
A3	100%	93%				A66	100%	100%			
A11	100%	71%				A11	100%	75%			
A31	100%	67%				A25	100%	67%			
						A34	100%	50%			
						A33	50%	100%			
						A31	50%	67%			

**Table 17. Summary of the 562<sup>nd</sup> Serum Exchange (Serum #1241-1244) by Antiglobulin and Other - class I**

Method: Antiglobulin											
*** Serum 1241 ***			*** Serum 1242 ***			*** Serum 1243 ***			*** Serum 1244 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A11	100%	100%	A3	100%	100%	A11	67%	100%	A25	100%	100%
A25	100%	100%	B50	67%	100%	A25	67%	100%	A26	100%	100%
A3	100%	100%	B56	67%	100%	A26	67%	100%	A66	100%	100%
A31	100%	100%	B62	67%	100%	A34	67%	100%	A34	67%	50%
A33	100%	100%	B63	33%	100%	A66	67%	100%	B47	33%	100%
A66	100%	100%	B70	33%	100%	A29	33%	100%	B60	33%	100%
A26	67%	100%	B72	33%	100%	A3	33%	100%	B61	33%	100%
A29	67%	100%	Cw10	33%	100%	A32	33%	100%	A11	33%	85%
A30	67%	100%	A11	33%	77%	A33	33%	100%	A2	33%	79%
A32	67%	100%	B49	33%	67%	A74	33%	100%			
A34	67%	100%				B38	33%	100%			
A68	67%	100%				B39	33%	100%			
A74	67%	100%				B60	33%	100%			
A28	33%	100%				B61	33%	100%			
A69	33%	100%									

Method: Other											
*** Serum 1241 ***			*** Serum 1242 ***			*** Serum 1243 ***			*** Serum 1244 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A11	67%	100%	A11	67%	100%	A11	67%	100%	A11	67%	100%
A25	67%	100%	A3	67%	100%	A25	67%	100%	A2	67%	100%
A26	67%	100%	B62	67%	100%	A26	67%	100%	A25	67%	100%
A29	67%	100%	B63	67%	100%	A29	67%	100%	A26	67%	100%
A3	67%	100%	B71	67%	100%	A3	67%	100%	A34	67%	100%
A30	67%	100%	B72	67%	100%	A30	67%	100%	A66	67%	100%
A31	67%	100%	B75	67%	100%	A31	67%	100%	B42	67%	100%
A32	67%	100%	A1	33%	100%	A32	67%	100%	B60	67%	100%
A33	67%	100%	A23	33%	100%	A33	67%	100%	B61	67%	100%
A34	67%	100%	A24	33%	100%	A34	67%	100%	B7	67%	100%
A66	67%	100%	A25	33%	100%	A66	67%	100%	B81	67%	100%
A68	67%	100%	A26	33%	100%	A68	67%	100%	A1	33%	100%
A69	67%	100%	A29	33%	100%	A69	67%	100%	A29	33%	100%
A1	33%	100%	A30	33%	100%	A1	33%	100%	A33	33%	100%
A23	33%	100%	A31	33%	100%	A36	33%	100%	A36	33%	100%

**Table 18. Summary of the 562<sup>nd</sup> Serum Exchange (Serum #1241-1244) by Luminex - class I**

Method: Luminex											
*** Serum 1241 ***			*** Serum 1242 ***			*** Serum 1243 ***			*** Serum 1244 ***		
28 typing Labs			28 typing Labs			28 typing Labs			28 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A25	100%	100%	A3	100%	100%	A25	100%	100%	A1	100%	100%
A26	100%	100%	B49	100%	100%	A26	100%	100%	A2	100%	100%
A29	100%	100%	B56	100%	100%	A29	100%	100%	A25	100%	100%
A3	100%	100%	B57	100%	100%	A3	100%	100%	A26	100%	100%
A30	100%	100%	B62	100%	100%	A30	100%	100%	A34	100%	100%
A31	100%	100%	B63	100%	100%	A31	100%	100%	A36	100%	100%
A32	100%	100%	B72	100%	100%	A32	100%	100%	A69	100%	100%
A34	100%	100%	B73	100%	100%	A33	100%	100%	A80	100%	100%
A68	100%	100%	B77	100%	100%	A34	100%	100%	B27	100%	100%
A69	100%	100%	A36	96%	100%	A36	100%	100%	B47	100%	100%
A74	100%	100%	B71	96%	100%	A68	100%	100%	B55	100%	100%
A80	100%	100%	B75	96%	100%	A69	100%	100%	B60	100%	100%
A33	100%	46%	Cw1	96%	100%	A74	100%	100%	B61	100%	100%
A36	96%	100%	Cw14	96%	100%	A80	100%	100%	B7	100%	100%
A43	96%	100%	A1	93%	100%	B41	100%	100%	Cw5	100%	100%
B18	96%	100%	A24	93%	100%	B42	100%	100%	Cw8	100%	92%
A24	89%	100%	A80	93%	100%	B7	100%	100%	A43	96%	100%
A1	86%	100%	B35	93%	100%	B8	100%	100%	B13	96%	100%
A66	86%	100%	B50	93%	100%	A1	96%	100%	B42	96%	100%
A11	82%	100%	B76	93%	100%	A43	96%	100%	B67	93%	100%
Cw12	68%	100%	Cw10	93%	100%	B60	96%	100%	B73	93%	100%
Cw6	54%	100%	Cw9	93%	100%	B73	96%	50%	A68	89%	100%
Cw17	50%	100%	B52	89%	100%	B48	93%	100%	B64	89%	100%
A1101	36%	100%	B53	89%	100%	B81	86%	100%	B48	86%	100%
A1102	36%	100%	Cw18	89%	100%	A11	82%	100%	A33	86%	50%
A2403	36%	100%	Cw4	89%	100%	A66	82%	100%	B41	86%	33%
A6601	32%	100%	A11	81%	100%	Cw18	71%	100%	A11	82%	100%
A6602	32%	100%	A32	78%	100%	Cw6	71%	100%	A66	82%	100%
A23	18%	100%	B46	78%	100%	Cw7	68%	100%	B18	79%	100%
			B58	78%	33%	B75	68%	50%	B46	79%	100%
			B13	74%	100%	B38	57%	100%	B54	79%	100%
			A74	70%	100%	Cw10	57%	50%	B65	79%	100%
			B51	70%	100%	B61	50%	100%	B81	79%	100%
			A30	59%	100%	B67	50%	100%	Cw10	75%	100%
			Cw5	59%	100%	B39	46%	100%	Cw9	75%	100%

**Table 18. Summary of the 562<sup>nd</sup> Serum Exchange (Serum #1241-1244) by Luminex - class I**

Method: Luminex - cont.												
*** Serum 1241 ***			*** Serum 1242 ***			*** Serum 1243 ***			*** Serum 1244 ***			
28 typing Labs			28 typing Labs			28 typing Labs			28 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
			A29	59%	100%	Cw9	43%	100%	B39	71%	100%	
			A31	59%	100%	A1101	36%	100%	Cw1	71%	100%	
			A34	59%	100%	A1102	36%	100%	A29	71%	50%	
			B78	59%	100%	A6601	36%	100%	B38	68%	100%	
			A25	48%	100%	A6602	36%	100%	B8	68%	100%	
			A33	48%	100%	B77	36%	100%	Cw16	68%	100%	
			B55	48%	100%	B8101	25%	100%	B37	64%	100%	
			A2403	41%	100%	B37	21%	100%	B45	54%	100%	
			B45	41%	100%	B44	21%	100%	B59	54%	100%	
			A1101	37%	100%	B703	18%	100%	Cw14	50%	100%	
			A1102	37%	100%	B47	14%	100%	Cw17	50%	100%	
			A23	33%	100%	B49	14%	100%	B2708	46%	100%	
			Cw15	33%	100%	Cw2	14%	100%	A1101	36%	100%	
			A43	26%	100%	B13	11%	100%	A1102	36%	100%	
			B61	26%	100%	B18	11%	100%	A6601	36%	100%	
			A26	22%	100%	B27	11%	100%	A6602	36%	100%	
			A66	22%	100%	B40	11%	100%	Cw12	36%	100%	
			B44	22%	100%	B46	11%	100%	A203	32%	100%	
			Cw8	19%	100%	B62	11%	100%	Cw6	29%	100%	
			A6601	11%	100%	B64	11%	100%	B8101	25%	100%	
			A6602	11%	100%	B65	11%	100%	B3901	18%	100%	
			B7801	11%	100%	Cw12	11%	100%	B703	18%	100%	



**Table 19. Summary of the 562<sup>nd</sup> Serum Exchange (Serum #1241-1244) by C1q and Flow Cytometry - class I**

Method: C1q											
*** Serum 1241 ***			*** Serum 1242 ***			*** Serum 1243 ***			*** Serum 1244 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A11	100%	100%	A3	100%	100%	A25	100%	100%	A25	100%	100%
A25	100%	100%	Cw1	100%	100%	A26	100%	100%	A26	100%	100%
A26	100%	100%	Cw10	100%	100%	A34	100%	100%	Cw5	100%	100%
A29	100%	100%	Cw14	100%	100%	A43	100%	100%	Cw8	100%	100%
A3	100%	100%	Cw18	100%	100%	A11	67%	100%	A43	67%	100%
A30	100%	100%	Cw4	100%	100%	A66	67%	100%	A6601	67%	100%
A31	100%	100%	Cw9	100%	100%	A6601	33%	100%	A2	33%	100%
A32	100%	100%	A11	33%	100%	A6602	33%	100%	A66	33%	100%
A33	100%	100%	B49	33%	100%	B8	33%	100%	A69	33%	100%
A34	100%	100%	B56	33%	100%				Cw18	33%	100%
A43	100%	100%	B62	33%	100%				Cw6	33%	100%
A68	100%	100%	B63	33%	100%						
A69	100%	100%	B72	33%	100%						
A74	100%	100%	B73	33%	100%						
A66	67%	100%	Cw6	33%	100%						
Cw12	67%	100%									
A6601	33%	100%									
A6602	33%	100%									

Method: Flow Cytometry											
*** Serum 1241 ***			*** Serum 1242 ***			*** Serum 1243 ***			*** Serum 1244 ***		
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 20. Summary of the 562<sup>nd</sup> Serum Exchange (Serum #1241-1244) by NIH-Standard and Other - class II**

Method: NIH-Extended											
<b>*** Serum 1241 ***</b>			<b>*** Serum 1242 ***</b>			<b>*** Serum 1243 ***</b>			<b>*** Serum 1244 ***</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 specificities assigned			no specificities assigned			no consensus			no specificities assigned		

Method: Other											
<b>*** Serum 1241 ***</b>			<b>*** Serum 1242 ***</b>			<b>*** Serum 1243 ***</b>			<b>*** Serum 1244 ***</b>		
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%	DQ6	67%	100%	DQ7	67%	100%	DQ5	67%	100%
DQA1*02	33%	100%	DQ7	67%	100%	DQ8	67%	100%	DQ6	67%	100%
			DQ8	67%	100%	DQ9	67%	100%	DR10	67%	100%
			DQ9	67%	100%	DR11	67%	100%	DR11	67%	100%
			DR11	67%	100%	DR4	67%	100%	DR13	67%	100%
			DR12	67%	100%	DR8	67%	100%	DR14	67%	100%
			DR13	67%	100%	DP10	33%	100%	DR17	67%	100%
			DR14	67%	100%	DP11	33%	100%	DR18	67%	100%
			DR15	67%	100%	DP13	33%	100%	DR7	67%	100%
			DR16	67%	100%	DP14	33%	100%	DR9	67%	100%
			DR17	67%	100%	DP15	33%	100%	DP14	33%	100%
			DR18	67%	100%	DP17	33%	100%	DP17	33%	100%
			DR8	67%	100%	DP9	33%	100%	DP20	33%	100%
			DP10	33%	100%	DPA1*02	33%	100%	DP9	33%	100%
			DP11	33%	100%	DPw1	33%	100%	DPA1*03	33%	100%
			DP14	33%	100%	DPw5	33%	100%	DPw2	33%	100%
			DP17	33%	100%	DPw6	33%	100%	DPw3	33%	100%
			DP18	33%	100%	DQ4	33%	100%	DPw4	33%	100%
			DP19	33%	100%	DQ6	33%	100%	DPw5	33%	100%
			DP20	33%	100%	DQA1*01	33%	100%	DPw6	33%	100%
			DP23	33%	100%	DQA1*02	33%	100%	DQ4	33%	100%
			DP28	33%	100%	DQA1*03	33%	100%	DQ7	33%	100%
			DP9	33%	100%	DQA1*04	33%	100%	DQ8	33%	100%
			DPA1*01	33%	100%	DQA1*05	33%	100%	DQ9	33%	100%
			DPA1*02	33%	100%	DQA1*06	33%	100%	DQA1*01	33%	100%

**Table 21. Summary of the 562<sup>nd</sup> Serum Exchange (Serum #1241-1244) by Luminex - class II**

Method: Luminex											
*** Serum 1241 ***			*** Serum 1242 ***			*** Serum 1243 ***			*** Serum 1244 ***		
16 typing Labs			26 typing Labs			26 typing Labs			26 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NEG	88%	100%	DQ6	100%	100%	DQ7	100%	100%	DQ5	100%	100%
DQ4	6%	100%	DQ8	100%	100%	DQ9	100%	100%	DQ6	100%	100%
DR52	6%	100%	DQ9	100%	100%	DR11	100%	100%	DR10	100%	100%
			DR11	100%	100%	DR4	100%	100%	DR11	100%	100%
			DR12	100%	100%	DR8	100%	100%	DR12	100%	100%
			DR13	100%	100%	DQ8	100%	86%	DR13	100%	100%
			DR14	100%	100%	DR13	92%	67%	DR14	100%	100%
			DR15	100%	100%	DR16	85%	100%	DR4	100%	100%
			DR16	100%	100%	DQ6	46%	50%	DR7	100%	100%
			DR17	100%	100%	DR15	42%	100%	DR8	100%	100%
			DR18	100%	100%	DR103	38%	100%	DR9	100%	100%
			DR8	100%	100%	DR53	35%	100%	DQ8	96%	100%
			DQ7	96%	100%	DQ4	27%	25%	DR1	96%	100%
			DR103	96%	100%	DR1404	23%	100%	DR17	96%	100%
			DR52	96%	100%	DR52	12%	100%	DR18	96%	100%
			DP18	92%	100%	DQA1*03	8%	100%	DR52	96%	100%
			DP28	92%	100%	DR14	8%	100%	DR53	96%	100%
			DPw3	92%	100%	DR7	8%	100%	DQ9	92%	100%
			DPw6	92%	100%				DR103	92%	100%
			DP14	88%	100%				DR51	92%	100%
			DP17	88%	100%				DQ7	88%	100%
			DP9	88%	100%				DQA1*03	54%	100%
			DPw2	88%	100%				DQ4	46%	73%
			DR4	85%	20%				DQA1*01	35%	100%
			DPw4	77%	100%				DR1404	27%	100%
			DP10	65%	100%				DR1403	23%	100%
			DP20	62%	100%				DR3	12%	100%
			DP23	58%	100%				DQ2	12%	20%
			DP19	54%	100%						
			DPA1*01	54%	100%						
			DPA1*03	54%	100%						
			DQ4	42%	100%						
			DR9	35%	100%						
			DPw1	35%	50%						

**Table 22. Summary of the 562<sup>nd</sup> Serum Exchange (Serum #1241-1244) by C1q and Flow Cytometry - class II**

Method: C1q											
<b>*** Serum 1241 ***</b>			<b>*** Serum 1242 ***</b>			<b>*** Serum 1243 ***</b>			<b>*** Serum 1244 ***</b>		
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	50%	100%	DP18	100%	100%	DQ7	100%	100%	DQ6	100%	100%
			DP20	100%	100%	DQ8	100%	100%	DR9	100%	100%
			DP28	100%	100%	DQ9	100%	100%	DQ5	50%	100%
			DPw2	100%	100%	DR11	100%	100%	DR14	50%	100%
			DPw3	100%	100%	DR13	100%	100%	DR53	50%	100%
			DPw6	100%	100%	DR4	100%	100%			
			DQ6	100%	100%	DR8	100%	100%			
			DQ7	100%	100%	DQ6	50%	100%			
			DQ8	100%	100%						
			DQ9	100%	100%						
			DR11	100%	100%						
			DR12	100%	100%						
			DR13	100%	100%						
			DR14	100%	100%						
			DR15	100%	100%						
			DR16	100%	100%						
			DR17	100%	100%						
			DR18	100%	100%						
			DR52	100%	100%						
			DR8	100%	100%						
			DP10	50%	100%						
			DP14	50%	100%						
			DP17	50%	100%						

Method: Flow Cytometry											
<b>*** Serum 1241 ***</b>			<b>*** Serum 1242 ***</b>			<b>*** Serum 1243 ***</b>			<b>*** Serum 1244 ***</b>		
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	100%	100%	no specificities assigned			no specificities assigned			no specificities assigned		

**Table 23. Individual laboratory results for Serum #1241-1244 by NIH-Standard and NIH-Extended - class I**

**** Serum 1241 ****							**** Serum 1242 ****			**** Serum 1243 ****						**** Serum 1244 ****			Method		
Ctr	% POS	A10	A11	A3	Other		% POS	A3	Other		% POS	A10	A11	Other			% POS	A10		Other	
786	15	+	+	+			7	+			11	+	+				8	+			STD

STD = NIH-Standard

**** Serum 1241 ****							**** Serum 1243 ****						**** Serum 1244 ****			Method								
Ctr	% POS	A66	A3	A11	A31	Other		% POS	A3	Other		% POS	A26	A66	A11		A25	A34	Other		% POS	A26	Other	
725	46	+	+	+	+			32	+			37	+	+	+	+	+	A31,A33		9	+			EXT
3753	35	+	+	+	+			10	+			30	+	+	+	+	+			1				EXT

EXT - NIH Extended

**Table 24. Individual laboratory results for Serum #1241-1244 by Antiglobulin and Other - class I**

**** Serum 1241 ****														**** Serum 1242 ****																
Ctr	% POS	A11	A25	A3	A31	A33	A66	A26	A29	A30	A32	A34	A68	A74	Other	% POS	A3	B50	B56	B62									Other	Method
774	88	+	+	+	+	+	+	+	+	+	+	+	+	+	A28	48	+	+	+	+									A11,B70,B49,B63 >	Antiglobulin
786	33	+	+	+	+	+	+						+			14	+											Cw10	Antiglobulin	
910		+	+	+	+	+	+	+	+	+	+		+	+	A69		+	+	+	+										Antiglobulin

**** Serum 1243 ****										**** Serum 1244 ****																			
Ctr	% POS	A11	A25	A26	A34	A66				Other	% POS	A25	A26	A66	A34													Other	Method
774	98										51	+	+	+	+													A11,A2,B60,B61 >	Antiglobulin
786	21	+	+	+	+	+					19	+	+	+															Antiglobulin
910		+	+	+	+	+				B60,B61,A29,A32>		+	+	+	+														Antiglobulin

**** Serum 1241 ****														**** Serum 1242 ****																
Ctr	% POS	A11	A25	A26	A29	A3	A30	A31	A32	A33	A34	A66	A68	A69	Other	% POS	A11	A3	B62	B63	B71	B72	B75						Other	Method
2400	91															100														LMX Phenotype
3753	92	+	+	+	+	+	+	+	+	+	+	+	+	+		56	+	+	+	+	+	+	+							LMX PRA
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,A24,A1,A74>		+	+	+	+	+	+	+					A1,A23,A24>	Other	

**** Serum 1243 ****										**** Serum 1244 ****																					
Ctr	% POS	A11	A25	A26	A29	A3	A30	A31	A32	A33	A34	A66	A68	A69	Other	% POS	A11	A2	A25	A26	A34	A66	B42	B60	B61	B7	B81	A1	A29	Other	Method
2400	98															98															LMX Phenotype
3753	96	+	+	+	+	+	+	+	+	+	+	+	+	+		74	+	+	+	+	+	+	+	+	+	+	+	+			LMX PRA
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,B15,B60,B61>		+	+	+	+	+	+	+	+	+	+	+	+	B81,A1,Cw6,B48>	Other	

**Table 25. Individual laboratory results for Serum #1241 by Luminex - class I**

		**** Serum 1241 ****																																		
Ctr	% POS	A25	A26	A29	A3	A30	A31	A32	A34	A68	A69	A74	A80	A33	A36	A43	B18	A24	A1	A66	A11	Cw12	Cw6	Cw17	A1101	A1102	A2403	A6601	A6602	Other	Method					
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							A23	LMX				
725		+	+	+	+	+	+	+	+	+	+	+	+	+		+					+	+											LMX			
731	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+			LMX			
774	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX		
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	+	+	A23	LMX				
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							A23	LMX				
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX		
3224	92	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+			LMX			
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						A23,Cw18	LMX				
3632	92	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX		
3753	92	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX		
3766	93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A23	LMX					
3808	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX		
3966	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX	
5219	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+		+	+	A10,A19,A28,A1C>	LMX				
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX	
6649	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+							LMX	
8043	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								B60,B61,B62,B44>	LMX				
8045	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+							LMX	
8048	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX	
8058	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
8086	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+					LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX
8103	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX





**Table 27. Individual laboratory results for Serum #1243 by Luminex - class I**

		**** Serum 1243 ****																																							
Ctr	% POS	A25	A26	A29	A3	A30	A31	A32	A33	A34	A36	A68	A69	A74	A80	B41	B42	B7	B8	A1	A43	B60	B73	B48	B81	A11	A66	Cw18	Cw6	Cw7	B75	B38	Cw10	B61	B67	B39	Cw9	Other	Method		
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B49,B50,B13,B47 >	LMX	
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
731	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,A1101,A1102,A6601 >	LMX		
774	93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B77,A1101,A1102,A6601 >	LMX	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
3224	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,A1101,A1102,A6601 >	LMX	
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B78,B62,B49 >	LMX
3632	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B77	LMX	
3766	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B77,B37,A1101,A1102 >	LMX	
3808	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
3966	66	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
5219	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,A10,B703,A19 >	LMX		
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,A1101,A1102,A6601 >	LMX	
6649	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B44,B703,B77,B8101 >	LMX		
8043	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B78,B62,B49 >	LMX	
8045	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703	LMX	
8048	45	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B62,B8101,A1101 >	LMX	
8058	48	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B44,B77	LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B77,B37	LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B49,B47,B44,B77 >	LMX
8086	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,B8101,A1101,A1102 >	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8103	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B703,B8101 >	LMX	



**Table 29. Individual laboratory results for Serum #1241-1244 by C1q and Flow Cytometry - class I**

Ctr	**** Serum 1241 ****														**** Serum 1242 ****							**** Serum 1243 ****							**** Serum 1244 ****							Method									
	% POS	A11	A25	A26	A29	A3	A30	A31	A32	A33	A34	A43	A68	A69	A74	A66	Cw12	Other	% POS	A3	Cw1	Cw10	Cw14	Cw18	Cw4	Cw9	Other	% POS	A25	A26	A34	A43	A11	A66	Other		% POS	A25	A26	Cw5	Cw8	A43	A6601	Other	
3632	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			60	+	+	+	+	+	+	+	A11,B62, B49>	35	+	+	+	+	+	+	B8	62	+	+	+	+	+	+	+	A2,A69	C1q
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+			+	+	+	+	+	+									A66	C1q		
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A6601, A6602		+	+	+	+	+	+	Cw6		+	+	+	+	+	+	A6601, A6602		+	+	+	+	+	+	+	Cw6, Cw18	C1q	

Ctr	**** Serum 1241 ****														**** Serum 1242 ****							**** Serum 1243 ****							**** Serum 1244 ****							Method								
	% POS														Other	% POS										Other	% POS														Other			
3224	100																	90								Other	99																	FC
5214	98																	99										99																FC
8067	96																	98										96																FC

**Table 30. Individual laboratory results for Serum #1241 - #1244 by NIH-Extended and Other - class II**

**** Serum 1241 ****												**** Serum 1242 ****													
Ctr	% POS											Other	% POS											Other	Method
3753	61												82												EXT

**** Serum 1243 ****												**** Serum 1244 ****													
Ctr	% POS	DQ7	DQ8	DQ9	DR11							Other	% POS											Other	Method
3753	66	+	+	+	+								7												EXT

EXT = NIH-Extended

**** Serum 1241 ****												**** Serum 1242 ****																
Ctr	% POS	DQA1*02										Other	% POS	DQ6	DQ7	DQ8	DQ9	DR11	DR12	DR13	DR14	DR15	DR16	DR17	DR18	DR8	Other	Method
2400	0												100															LMX Phenotype
3753	0												97	+	+	+	+	+	+	+	+	+	+	+	+		LMX PRA	
4322		+												+	+	+	+	+	+	+	+	+	+	+	+	DR103,DR4>	Other	

**** Serum 1243 ****												**** Serum 1244 ****																			
Ctr	% POS	DQ7	DQ8	DQ9	DR11	DR4	DR8	DP10	DP11	DP13	DP14	DP15	DP17	DP9	Other	% POS	DQ5	DQ6	DR10	DR11	DR13	DR14	DR17	DR18	DR7	DR9	DP14	DP17	DP20	Other	Method
2400	80															100															LMX Phenotype
3753	53	+	+	+	+	+	+									97	+	+	+	+	+	+	+	+	+	+	+	+		LMX PRA	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	DR103,DR12>		+	+	+	+	+	+	+	+	+	+	+	+	DR1,DR103>	Other	

**Table 31. Individual laboratory results for Serum #1241 - #1242 by Luminex - class II**

**** Serum 1241 ****					**** Serum 1242 ****																																																					
Ctr	% POS	DQ4	DR52	Other	% POS	DQ6	DQ8	DQ9	DR11	DR12	DR13	DR14	DR15	DR16	DR17	DR18	DR8	DQ7	DR103	DR52	DP18	DP28	DPw3	DPw6	DP14	DP17	DP9	DPw2	DR4	DPw4	DP10	DP20	DP23	DP19	DPA1*01	DPA1*03	DQ4	DR9	DPw1	DP402	DPA1*04	DP401	DR1403	DR1404	Other	Method												
615	0					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51, DRB5*01:01	LMX										
731	0				66	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1,DR3>	LMX										
774	0				100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX						
910						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX					
2400						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP11,DP13 DP11,DP13, DRB5*01:01	LMX							
3224					91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX				
3582						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DRB5*01:01	LMX							
3632	0				95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51,DQ5>	LMX						
3753	0					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DRB5*01:01	LMX							
3766	0				99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP11,DP13	LMX						
3808	0				66	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR3	LMX							
3966					63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*01>	LMX						
5214						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPA1*01:03, DPA1*03:01	LMX					
5219	0				63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR2,DR3>	LMX						
5462	0					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX	
6649	0				67	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX
8043	0				97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR10,DR51	LMX				
8045	0				61	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPw5	LMX				
8048	0				94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP11	LMX				
8058	9	+			81	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51,DQ2>	LMX				
8062						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51	LMX			
8082			+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51, DQA1*01>	LMX			
8086					66	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP11,DP13	LMX				
8098						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPw5, DQA1*01	LMX			
8100	0					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP11,DP13	LMX			
8103					60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1,DR3>	LMX	

**Table 32. Individual laboratory results for Serum #1243 by Luminex - class II**

**** Serum 1243 ****														Method			
Ctr	% POS	DQ7	DQ9	DR11	DR4	DR8	DQ8	DR13	DR16	DQ6	DR15	DR103	DR53		DQ4	DR1404	Other
615		+	+	+	+	+	+	+	+	+	+	+	+	+		DPA1*02,DRB1*13:03	LMX
731	23	+	+	+	+	+	+	+							+		LMX
774	57	+	+	+	+	+	+	+									LMX
910		+	+	+	+	+	+	+									LMX
2400		+	+	+	+	+	+	+	+	+							LMX
3224	74	+	+	+	+	+	+	+	+	+	+		+	+		DRB1*13:03	LMX
3582		+	+	+	+	+	+	+	+	+	+	+	+	+		DR7,DR9,DR12,DPA1*02,DRB3*01:01, DRB3*03:01,DRB5*01:01	LMX
3632	99	+	+	+	+	+	+	+	+		+	+				DR7,DR52,DPw6	LMX
3753		+	+	+	+	+	+		+				+			DRB1*13:03,DQB1*06:01,DQB1*06:03, DQB1*06:09	LMX
3766	89	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
3808	23	+	+	+	+	+	+	+							+	DR14	LMX
3966	23	+	+	+	+	+	+	+	+				+			DQA1*01,DQA1*03,DQA1*05,DQA1*06	LMX
5214		+	+	+	+	+	+		+			+				B*15:02, DRB1*13,DQB1*06	LMX
5219	22	+	+	+	+	+	+	+	+							DR2,DR5,DR6,DR1403 >	LMX
5462		+	+	+	+	+	+	+	+	+						DRB1*13:03,DRB1*13:01	LMX
6649	42	+	+	+	+	+	+	+	+		+				+	DR52	LMX
8043	80	+	+	+	+	+	+	+	+	+					+		LMX
8045	27	+	+	+	+	+	+	+	+		+				+	DR52	LMX
8048	66	+	+	+	+	+	+	+	+		+	+					LMX
8058	95	+	+	+	+	+	+	+	+	+	+	+	+	+		DR1,DR7,DR9,DR10 >	LMX
8062		+	+	+	+	+	+	+	+	+		+	+			DQA1*03	LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+			DQA1*01,DQA1*03,DQA1*05,DQA1*06	LMX
8086	28	+	+	+	+	+	+	+	+	+		+		+			LMX
8098		+	+	+	+	+	+	+	+						+		LMX
8100		+	+	+	+	+	+	+	+	+							LMX
8103	24	+	+	+	+	+	+	+	+						+	DR14,DQ3	LMX

**Table 33. Individual laboratory results for Serum #1244 by Luminex - class II**

**** Serum 1244 ****																						Method							
Ctr	% POS	DQ5	DQ6	DR10	DR11	DR12	DR13	DR14	DR4	DR7	DR8	DR9	DQ8	DR1	DR17	DR18	DR52	DR53	DQ9	DR103	DR51	DQ7	DQA1*03	DQ4	DQA1*01	DR1404	DR1403	Other	Method
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				DPw1,DPw2,DPw3,DPw5, DRB5*02:02,DRB5*01:01 >	LMX
731	56	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+					+	+	+	DR3	LMX	
774	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DQA1*02	LMX	
3224	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+				LMX
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX
3632	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				DQ2	LMX
3766	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX
3808	40	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+							+	+	DR3	LMX	
3966	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DQA1*05,DQA1*06	LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX
5219	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	DR3,DR5,DR6,DQ1 >	LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX
6649	57	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		LMX
8043	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DR15,DR16	LMX	
8045	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		LMX
8048	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX
8058	62	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DQ2	LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		DQA1*05,DQA1*06	LMX	
8086	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DQ2	LMX	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DQ2	LMX	
8103	47	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	DR3,DQ3	LMX	

**Table 34. Individual laboratory results for Serum #1241 - #1244 by C1q and Flow - class II**

**** Serum 1241 ****				**** Serum 1242 ****																**** Serum 1243 ****							**** Serum 1244 ****												
Ctr	% POS		Other	% POS	DP18	DP20	DP28	DPw2	DPw3	DPw6	DQ6	DQ7	DQ8	DQ9	DR11	DR12	DR13	DR14	DR15	DR16	DR17	DR18	DR52	DR8	Other	% POS	DQ7	DQ8	DQ9	DR11	DR13	DR4	DR8	Other	% POS	DQ6	DR9	Other	Method
2400	NT				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPw4		+	+	+	+	+	+	+			+	+		C1q
3632	0			90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP9,DP10>	71	+	+	+	+	+	+	+	DQ6	77	+	+	DR14,DR53,DQ5	C1q

**** Serum 1241 ****				**** Serum 1242 ****																**** Serum 1243 ****							**** Serum 1244 ****											
Ctr	% POS		Other	% POS																					Other	% POS							Other	% POS		Other	Method	
3224	0			100																					DRB5*01:01	77							DRB1*13:03	100				FC
5214	0			99																						79								97				FC
8067	0			95																						91								100				FC

FC = Flow cytometry