

# SERUM EXCHANGE #578 FEBRUARY 23, 2021

Sera	1305-1308
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The results for Serum Exchange #578 are summarized in Tables 21 - 28 and individual listing of results are shown in tables 29 - 39. Strong anti-A2, -

B35, and -DQ3 (DQ7, DQ8, DQ9) reactivity was examined in this study.

1305	method	#labs	B35	B51	B53	B77	B78	A23	A24	A2403	B18	B38	B39	B3901	B49	B50	B52	B54	B56	B57	B58	B62	B71	B72	B59	B44	B45	
class I	NIH-Std	1	no consensus																									
	AHG	1	no consensus																									
	Flow	1	no specificities assigned																									
	C1q	2	100%	100%	100%	50%	50%																					
	PRA	3	80%	80%	80%	80%	80%	40%	60%		80%	80%	80%		80%	80%	80%	80%	80%	80%	60%	80%	80%	80%	80%	80%	80%	
	SAB	24	100%	100%	100%	100%	95%	100%	100%	29%	100%	100%	76%	19%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	95%	90%	86%	
1305	method	#labs	B55	B27	B2705	B37	B63	B75	B76	B46	A25	A26	A34	A32	A80	A29	A33	A68	B13	B47	A11	A1101	A1102	A3	A43	A31	B48	
	PRA	3	80%	80%		60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	40%			40%	40%	40%	60%
	SAB	24	90%	81%	14%	100%	100%	100%	100%	86%	100%	71%	71%	100%	86%	76%	76%	71%	71%	67%	67%	10%	10%	62%	62%	57%	57%	
1305	method	#labs	B64	B67	A66	A6601	B65	B8	Cw15	A30	Cw12	Cw5	Cw14	Cw18	Cw16	Cw6	Cw8	Bw4	Cw1	Cw7	Cw4	A1	B7801	B5C	A10C	A1C	A2C	
	PRA	3	40%	20%	60%		40%	60%	40%	40%	20%	40%	20%	20%	20%	20%	20%											
	SAB	24	57%	57%	52%	33%	52%	52%	48%	43%	33%	33%	24%	19%	14%	14%	14%	48%	52%	19%	14%	29%	19%	14%	10%	10%	10%	
1305	method	#labs	DR103	DR1	DR15	DR16	DR51	DR9	DR4	DQ6	DR14	DQ5	DQA1*01	DR2														
class II	Flow	1	no specificities assigned																									
	C1q	1	no consensus																									
	PRA	5	80%	60%	80%	80%	80%	80%	40%	20%	40%	20%																
	SAB	19	100%	100%	100%	100%	100%	100%	68%	58%	53%	37%	16%	5%														

**Serum 1305.** Strong anti-B35 (16776) and -B53 (17055) reactivity was detected in this serum by all methods, except Flow. In addition, strong reactivity to other 5C specificities, including B51 (16237), B77 (11905), and B78 (14099), was also reported by various methods. Labs reporting by PRA and SAB also detected reactivity to B44, B45, as well as reactivity to a number of 7C, 8C,

10C, and C-locus specificities.

Anti-DR51 (11688) reactivity was detected in the sample by C1q, PRA, and SAB labs. Additionally, good agreement (100%) was achieved among SAB labs in the reporting of other DR specificities, including DR1 (2576), DR103 (2623), DR15 (11023), DR16 (6024), and DR9 (2813).

\*(median MFI)

1306	method	#labs	A2	A68	A69	B62	B75	B57	Cw15	Cw18	Cw2	Cw5	Cw6	B58	B35	B45	B46	B49	B50	B53	B56	B63	B71	B72	B76	B77
class I	NIH-Std	1	no consensus																							
	AHG	1	no consensus																							
	Flow	1	no specificities assigned																							
	C1q	2	100%	50%	100%	50%	50%	50%	50%	50%	50%	50%	50%													
	PRA	3	80%	60%	80%	80%	80%	80%	60%	60%	60%	60%	60%	80%	80%	80%	60%	60%	60%	80%	60%	60%	60%	80%	60%	80%
	SAB	24	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	76%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
1306	method	#labs	Cw4	Cw17	A3	A74	B13	B51	B52	B78	B7801	B55	A24	A2403	A23	A32	B44	A29	A11	A1102	B67	Cw12	A31	B27	B2708	Cw10
	PRA	3	60%	60%	40%	40%	60%	80%	80%	80%		60%	40%		40%		40%	40%	40%		40%	40%		40%		40%
	SAB	24	100%	100%	90%	90%	90%	90%	90%	86%	14%	90%	86%	24%	57%	86%	86%	76%	76%	19%	67%	62%	57%	57%	19%	57%
1306	method	#labs	Cw10	Cw9	A34	B38	B64	A30	A33	B54	A203	A66	A6602	B39	B42	B59	A25	A43	B18	B41	B47	B61	Bw4	Cw403	A2C	B37
	PRA	3	40%	20%	40%	20%	40%	40%	40%	20%		40%		20%	20%	40%	20%	20%	20%	20%	20%	20%				
	SAB	24	57%	57%	43%	43%	43%	38%	38%	38%	33%	29%	14%	29%	29%	29%	24%	24%	24%	19%	19%	14%	19%	19%	14%	14%

1306	method	#labs	DQ6	DQ8	DQ9	DR4	DR53	DQ5	DR9	DR1	DR7	DR14	DQ7	DR51	DQ2	DR10	DR15	DP19	DQ4	DQ3	DQA1*03	DQA1*01	DQA1*04	DQA1*02	
class II	Flow	1	no specificities assigned																						
	C1q	1	no consensus																						
	PRA	5	80%	80%	80%	60%	80%	80%	60%	80%	60%	40%	20%	20%	20%	40%	20%	20%							
	SAB	19	100%	100%	100%	100%	100%	95%	95%	89%	89%	53%	21%	16%	16%	11%	11%	5%	95%	11%	68%	37%	21%	11%	

**Serum 1306.** For this sample, strong anti-A2 (21998) reactivity was reported by all methods except Flow. In addition, labs reporting by C1q, PRA, and SAB reported reactivity to A68 (15662), A69 (17658), B62 (16181), B75 (13603), B57 (16292), Cw15 (16456), Cw18 (13244), Cw2 (14032), Cw5 (14525), and Cw6 (15130). Additional reactivity to B45, A3, A30, as well a reactivity to a number of 5C, 7C, and 10C specificities was reported by PRA and Luminex.

Strong anti-DR4 (17323), -DQ8 (13371), and -DQ9 (13571) reactivity was reported in this sample by C1q, PRA, and SAB labs. In addition, reactivity to a number of DR and DQ specificities, including anti-DR53 (10442), -DQ7 (10504), DQ5 (4292), and DQ6 (8736) reactivity, was reported by PRA and SAB labs.

1307	method	#labs	NEG	A23	Cw17	Cw6	Cw4	A29	B67	B76	Cw18
class I	NIH-Std	1	NT								
	AHG	2	NT								
	Flow	1	no consensus								
	C1q	2	50%								
	PRA	4	50%	50%	50%	50%	25%	25%			
	SAB	24	53%	41%	24%	18%	18%	5%	5%	5%	5%

1307	method	#labs	DR11	DR13	DR14	DR1403	DR1404	DR17	DR18	DR8	DQ2	DQ6	DR3	DQ1	DQA1*01	DQA1*05	DR5	DR6
class II	Flow	1	no specificities assigned															
	C1q	1	no consensus															
	PRA	5	80%	80%	80%			80%	80%	80%	20%							
	SAB	19	100%	100%	100%	32%	32%	100%	100%	95%	5%	26%	11%	5%	5%	5%	5%	5%

**Serum 1307.** This sample was reported as negative for class I by 53% of SAB labs, 50% of PRA labs, 1 C1q lab and 1 Flow lab. A few others reporting by PRA and SAB reported the presence of weak class I antibodies, including anti-A23 (2300) and -Cw17 (2802) reactivity. As consensus among SAB labs was < 90%, this sample was not graded for class I.

Weak class II reactivity was reported for this sample, with SAB and PRA labs reporting reactivity to a number of DR and DQ specificities, including DR11 (4168), DR13 (4096), DR14 (3960), DR17 (2991), DR18 (2252), and DR8 (3040). One lab reporting by C1q reported this sample as negative for class II.

1308	method	#labs	NEG	B27	B2705	B2708	B52	B13	B59	B38	B8	B44	B47	B7C	A24	B49	B77
class I	NIH-Std	1	NT														
	AHG	2	NT														
	Flow	1	no specificities assigned														
	C1q	2	50%														
	PRA	3	25%	50%			50%	25%	25%	25%					25%	25%	25%
	SAB	24	19%	81%	19%	5%	19%	14%	10%	14%	10%	5%	5%	5%			

1308	method	#labs	DQ7	DQ8	DQ9	DR1	DR10	DR103	DR14	DR1404	DR4	DR51	DR53	DR9	DR15	DR16
class II	Flow	1	no specificities assigned													
	C1q	1	no consensus													
	PRA	5	80%	80%	80%	80%	80%	80%	60%		80%	80%	80%	80%	80%	80%
	SAB	19	100%	100%	100%	100%	100%	100%	100%	32%	100%	100%	100%	100%	100%	74%

  

1308	method	#labs	DR7	DQ4	DQ2	DPA1*03	DQA1*03	DQA1*02	DQA1*06	DQA1*05	DQ3	DQ5	DQA1*04	DR2	DR6
class II	Flow	1													
	C1q	1													
	PRA	5	80%	20%	20%	20%					20%				
	SAB	19	89%	42%	37%	5%	79%	42%	32%	26%	11%		5%	5%	5%

**Serum 1308.** Weak anti-B27 (3464) reactivity was reported by 50% of PRA labs and 81% of SAB labs. The remaining labs reported this sample as negative for class I, along with 1 lab reporting by C1q. This sample was not graded for class I as consensus among SAB labs was < 90%.

By contrast, strong class II reactivity was reported for this sample. C1q, PRA, and SAB each reported reactivity to DQ7 (8819), DQ8 (11335), DQ9

(11433), DR1 (12244), DR10 (12505), DR4 (16015), DR51 (9565), DR53 (21603), and DR9 (7216). Additional reactivity to other DR and DQ specificities was also reported by PRA and SAB. In addition, strong reactivity to DQA1\*02 (14334), DQA1\*03 (11574), DQA1\*05 (10155), and DQA1\*06 (11547) was also reported by SAB labs.

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

**Table 21. Summary of the 578<sup>th</sup> Serum Exchange (Serum #1305-1308) by NIH-Standard - class I**

Method: NIH-Standard											
<b>*** Serum 1305 ***</b>			<b>*** Serum 1306 ***</b>			<b>*** Serum 1307 ***</b>			<b>*** Serum 1308 ***</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			NT			NT		

**Table 22. Summary of the 578<sup>th</sup> Serum Exchange (Serum #1305-1308) by Antiglobulin and Flow Cytometry - class I**

Method: Antiglobulin											
<b>*** Serum 1305 ***</b>			<b>*** Serum 1306 ***</b>			<b>*** Serum 1307 ***</b>			<b>*** Serum 1308 ***</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			NT			NT		

Method: Flow Cytometry											
<b>*** Serum 1305 ***</b>			<b>*** Serum 1306 ***</b>			<b>*** Serum 1307 ***</b>			<b>*** Serum 1308 ***</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		

**Table 23. Summary of the 578<sup>th</sup> Serum Exchange (Serum #1305-1308) by C1q - class I**

Method: C1q											
<b>*** Serum 1305 ***</b>			<b>*** Serum 1306 ***</b>			<b>*** Serum 1307 ***</b>			<b>*** Serum 1308 ***</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
B35	100%	100%	A2	100%	100%	NEG	50%	-	NEG	50%	-
B51	100%	100%	A69	100%	100%						
B53	100%	100%	A68	50%	100%						
B77	50%	100%	B57	50%	100%						
B78	50%	100%	B62	50%	100%						
			B75	50%	100%						
			Cw15	50%	100%						
			Cw18	50%	100%						
			Cw2	50%	100%						
			Cw5	50%	100%						
			Cw6	50%	100%						

**Table 24. Summary of the 578<sup>th</sup> Serum Exchange (Serum #1305-1308) by PRA- class I**

Method: Luminex - PRA												
*** Serum 1305 ***			*** Serum 1306 ***			*** Serum 1307 ***			*** Serum 1308 ***			
5 typing Labs			5 typing Labs			4 typing Labs			4 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
B18	80%	100%	A2	80%	100%	NEG	50%	100%	B27	50%	100%	
B27	80%	100%	A69	80%	100%	A23	50%	100%	B52	50%	100%	
B35	80%	100%	B35	80%	100%	Cw17	50%	100%	NEG	25%	100%	
B38	80%	100%	B45	80%	100%	Cw6	50%	100%	A24	25%	100%	
B39	80%	100%	B51	80%	100%	A29	25%	100%	B13	25%	100%	
B44	80%	100%	B52	80%	100%	Cw4	25%	100%	B38	25%	100%	
B45	80%	100%	B53	80%	100%				B49	25%	100%	
B49	80%	100%	B57	80%	100%				B59	25%	100%	
B50	80%	100%	B58	80%	100%				B77	25%	100%	
B51	80%	100%	B62	80%	100%							
B52	80%	100%	B72	80%	100%							
B53	80%	100%	B75	80%	100%							
B54	80%	100%	B77	80%	100%							
B55	80%	100%	B78	80%	100%							
B56	80%	100%	A68	60%	100%							
B57	80%	100%	B13	60%	100%							
B59	80%	100%	B46	60%	100%							
B62	80%	100%	B49	60%	100%							
B71	80%	100%	B50	60%	100%							
B72	80%	100%	B55	60%	100%							
B77	80%	100%	B56	60%	100%							
B78	80%	100%	B63	60%	100%							
A24	60%	100%	B71	60%	100%							
A25	60%	100%	B76	60%	100%							
A26	60%	100%	Cw15	60%	100%							
A29	60%	100%	Cw17	60%	100%							
A32	60%	100%	Cw18	60%	100%							
A33	60%	100%	Cw2	60%	100%							
A34	60%	100%	Cw4	60%	100%							
A66	60%	100%	Cw5	60%	100%							
A68	60%	100%	Cw6	60%	100%							
A80	60%	100%	A11	40%	100%							
B13	60%	100%	A23	40%	100%							
B37	60%	100%	A24	40%	100%							
B46	60%	100%	A29	40%	100%							



**Table 24. Summary of the 578<sup>th</sup> Serum Exchange (Serum #1305-1308) by PRA- class I**

Method: Luminex - PRA, cont.					
*** Serum 1305 ***			*** Serum 1306 ***		
5 typing Labs			5 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B47	60%	100%	A3	40%	100%
B48	60%	100%	A30	40%	100%
B58	60%	100%	A31	40%	100%
B63	60%	100%	A32	40%	100%
B75	60%	100%	A33	40%	100%
B76	60%	100%	A34	40%	100%
B8	60%	100%	A66	40%	100%
A11	40%	100%	A74	40%	100%
A23	40%	100%	B27	40%	100%
A3	40%	100%	B44	40%	100%
A30	40%	100%	B59	40%	100%
A31	40%	100%	B64	40%	100%
A43	40%	100%	B67	40%	100%
B64	40%	100%	Cw10	40%	100%
B65	40%	100%	Cw12	40%	100%
Cw5	40%	100%	A25	20%	100%
A36	20%	100%	A43	20%	100%
A74	20%	100%	B18	20%	100%
B67	20%	100%	B38	20%	100%
Cw12	20%	100%	B39	20%	100%
Cw14	20%	100%	B41	20%	100%
Cw15	20%	100%	B42	20%	100%
Cw16	20%	100%	B47	20%	100%
Cw18	20%	100%	B54	20%	100%
Cw6	20%	100%	B60	20%	100%
Cw8	20%	100%	B61	20%	100%
			B7	20%	100%
			Cw9	20%	100%

**Table 25. Summary of the 578<sup>th</sup> Serum Exchange (Serum #1305-1308) by Single Antigen - class I**

Method: Luminex - SAB											
*** Serum 1305 ***			*** Serum 1306 ***			*** Serum 1307 ***			*** Serum 1308 ***		
21 typing Labs			21 typing Labs			17 typing Labs			21 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A23	100%	100%	A2	100%	100%	NEG	53%	-	B27	81%	33%
A24	100%	100%	A68	100%	100%	A23	41%	100%	NEG	19%	-
A25	100%	100%	A69	100%	100%	Cw17	24%	100%	B2705	19%	100%
A32	100%	100%	B35	100%	100%	Cw4	18%	100%	B52	19%	100%
B18	100%	100%	B46	100%	100%	Cw6	18%	100%	B13	14%	100%
B35	100%	100%	B49	100%	100%	A29	5%	100%	B38	14%	100%
B37	100%	100%	B50	100%	100%	B67	5%	100%	B59	10%	100%
B38	100%	100%	B53	100%	100%	B76	5%	100%	B8	10%	100%
B49	100%	100%	B56	100%	100%	Cw18	5%	100%	B2708	5%	100%
B50	100%	100%	B57	100%	100%				B44	5%	100%
B51	100%	100%	B58	100%	100%				B47	5%	100%
B52	100%	100%	B62	100%	100%				B7C	5%	100%
B53	100%	100%	B63	100%	100%						
B54	100%	100%	B71	100%	100%						
B56	100%	100%	B72	100%	100%						
B57	100%	100%	B75	100%	100%						
B58	100%	100%	B76	100%	100%						
B62	100%	100%	B77	100%	100%						
B63	100%	100%	Cw15	100%	100%						
B71	100%	100%	Cw17	100%	100%						
B72	100%	100%	Cw18	100%	100%						
B75	100%	100%	Cw2	100%	100%						
B76	100%	100%	Cw4	100%	100%						
B77	100%	100%	Cw5	100%	100%						
B59	95%	100%	Cw6	100%	100%						
B78	95%	100%	A3	90%	100%						
B44	90%	100%	A74	90%	100%						
B55	90%	100%	B13	90%	100%						
A80	86%	100%	B51	90%	100%						
B45	86%	100%	B52	90%	100%						
B46	86%	67%	B55	90%	100%						
B27	81%	80%	A24	86%	100%						
A29	76%	100%	A32	86%	100%						
A33	76%	100%	B78	86%	100%						
B39	76%	100%	B44	86%	83%						
A26	71%	100%	A29	76%	100%						
A34	71%	100%	B45	76%	100%						

**Table 25. Summary of the 578<sup>th</sup> Serum Exchange (Serum #1305-1308) by Single Antigen - class I**

Method: Luminex - SAB, cont.											
*** Serum 1305 ***			*** Serum 1306 ***			*** Serum 1307 ***			*** Serum 1308 ***		
21 typing Labs			21 typing Labs			21 typing Labs			21 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A68	71%	100%	A11	76%	79%						
B13	71%	60%	B67	67%	100%						
A11	67%	100%	Cw12	62%	100%						
B47	67%	100%	A23	57%	100%						
A3	62%	100%	A31	57%	100%						
A43	62%	100%	B27	57%	100%						
A31	57%	100%	Cw10	57%	100%						
B48	57%	100%	Cw9	57%	100%						
B64	57%	100%	A34	43%	100%						
B67	57%	100%	B38	43%	100%						
A66	52%	100%	B64	43%	100%						
B65	52%	100%	A30	38%	100%						
B8	52%	100%	A33	38%	100%						
Cw1	52%	100%	B54	38%	100%						
Cw15	48%	100%	A203	33%	100%						
Bw4	48%	97%	A66	29%	100%						
A30	43%	100%	B39	29%	100%						
A6601	33%	100%	B42	29%	100%						
Cw12	33%	100%	B59	29%	100%						
Cw5	33%	100%	A2403	24%	100%						
A1	29%	100%	A25	24%	100%						
A2403	29%	100%	A43	24%	100%						
Cw14	24%	100%	B18	24%	100%						
B3901	19%	100%	A1102	19%	100%						
B7801	19%	100%	B2708	19%	100%						
Cw18	19%	100%	B41	19%	100%						
Cw7	19%	100%	B47	19%	100%						
B2705	14%	100%	Bw4	19%	100%						
B5C	14%	100%	Cw403	19%	100%						
Cw16	14%	100%	A2C	14%	100%						
Cw4	14%	100%	A6602	14%	100%						
Cw6	14%	100%	B37	14%	100%						
Cw8	14%	100%	B61	14%	100%						
A10C	10%	100%	B65	14%	100%						
A1101	10%	100%	B7801	14%	100%						
A1102	10%	100%	A26	10%	100%						
A1C	10%	100%	B15	10%	100%						
A2C	10%	100%	B5C	10%	100%						

**Table 26. Summary of the 578<sup>th</sup> Serum Exchange (Serum #1305-1308) by Flow Cytometry and C1q - class II**

Method: Flow Cytometry											
<b>*** Serum 1305 ***</b>			<b>*** Serum 1306 ***</b>			<b>*** Serum 1307 ***</b>			<b>*** Serum 1308 ***</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 specificities assigned			no specificities assigned		

Method: C1q											
<b>*** Serum 1305 ***</b>			<b>*** Serum 1306 ***</b>			<b>*** Serum 1307 ***</b>			<b>*** Serum 1308 ***</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		

**Table 27. Summary of the 578<sup>th</sup> Serum Exchange (Serum #1305-1308) by PRA - class II**

Method: Luminex-PRA											
*** Serum 1305 ***			*** Serum 1306 ***			*** Serum 1307 ***			*** Serum 1308 ***		
5 typing Labs			5 typing Labs			5 typing Labs			5 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR103	80%	100%	DQ4	80%	100%	DR11	80%	100%	DQ7	80%	100%
DR15	80%	100%	DQ5	80%	100%	DR13	80%	100%	DQ8	80%	100%
DR16	80%	100%	DQ6	80%	100%	DR14	80%	100%	DQ9	80%	100%
DR51	80%	100%	DQ8	80%	100%	DR17	80%	100%	DR1	80%	100%
DR9	80%	100%	DQ9	80%	100%	DR18	80%	100%	DR10	80%	100%
DR1	60%	100%	DR1	80%	100%	DR8	80%	100%	DR103	80%	100%
DR14	40%	100%	DR53	80%	100%	DQ2	20%	100%	DR15	80%	100%
DR4	40%	100%	DR4	60%	100%				DR16	80%	100%
DQ5	20%	100%	DR7	60%	100%				DR4	80%	100%
DQ6	20%	100%	DR9	60%	100%				DR51	80%	100%
			DR10	40%	100%				DR53	80%	100%
			DR14	40%	100%				DR7	80%	100%
			DP19	20%	100%				DR9	80%	100%
			DQ2	20%	100%				DR14	60%	100%
			DQ7	20%	100%				DQ2	20%	100%
			DR15	20%	100%				DQ4	20%	100%
			DR51	20%	100%				DQ5	20%	100%
									DQA1*03	20%	100%

**Table 28. Summary of the 578<sup>th</sup> Serum Exchange (Serum #1305-1308) by Single Antigen - class II**

Method: Luminex - SAB											
*** Serum 1305 ***			*** Serum 1306 ***			*** Serum 1307 ***			*** Serum 1308 ***		
19 typing Labs			19 typing Labs			19 typing Labs			19 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR1	100%	100%	DQ6	100%	100%	DR11	100%	88%	DQ7	100%	100%
DR15	100%	100%	DQ8	100%	100%	DR13	100%	75%	DQ8	100%	100%
DR16	100%	100%	DQ9	100%	100%	DR14	100%	71%	DQ9	100%	100%
DR51	100%	100%	DR4	100%	100%	DR17	100%	50%	DR1	100%	100%
DR9	100%	100%	DR53	100%	94%	DR18	100%	25%	DR10	100%	100%
DR103	100%	67%	DQ4	95%	91%	DR8	95%	100%	DR103	100%	100%
DR4	68%	100%	DQ5	95%	90%	DR1403	32%	100%	DR14	100%	100%
DQ6	58%	17%	DR9	95%	86%	DR1404	32%	100%	DR15	100%	100%
DR14	53%	100%	DR1	89%	100%	DQ6	26%	100%	DR4	100%	100%
DQ5	37%	100%	DR7	89%	86%	DR3	11%	100%	DR51	100%	100%
DQA1*01	16%	100%	DQA1*03	68%	100%	DQ1	5%	100%	DR53	100%	100%
DR2	5%	100%	DR14	53%	100%	DQA1*01	5%	100%	DR9	100%	100%
			DQA1*01	37%	100%	DQA1*05	5%	100%	DR7	89%	100%
			DQ7	21%	100%	DR5	5%	100%	DQA1*03	79%	100%
			DQA1*04	21%	100%	DR6	5%	100%	DR16	74%	100%
			DR51	16%	100%	DQ2	5%	20%	DQA1*02	42%	100%
			DQ2	16%	20%				DQ4	42%	25%
			DQ3	11%	100%				DQ2	37%	20%
			DQA1*02	11%	100%				DQA1*06	32%	100%
			DR10	11%	100%				DR1404	32%	100%
			DR15	11%	100%				DQA1*05	26%	100%
			DP19	5%	100%				DQ3	11%	100%
			DQ1	5%	100%				DPA1*03	5%	100%
			DQA1*05	5%	100%				DQA1*04	5%	100%
			DQA1*06	5%	100%				DR2	5%	100%
			DR12	5%	100%				DR6	5%	100%

**Table 29. Individual laboratory results for Serum #1305 - #1308 by NIH-Standard - class**

Ctr	**** Serum 1305 ****					**** Serum 1306 ****				**** Serum 1307 ****				**** Serum 1308 ****				Method
	% POS	B35	B5	B53	Other	% POS	A2		Other	% POS			Other	% POS			Other	
786		+	+	+			+											STD

STD = NIH-Standard

**Table 30. Individual laboratory results for Serum #1305 - #1308 by Antiglobulin and Flow Cytometry - class I**

**** Serum 1305 ****						**** Serum 1306 ****				**** Serum 1307 ****				**** Serum 1308 ****				
Ctr	% POS	B35	B51	B53	Other	% POS	A2		Other	% POS			Other	% POS			Other	Method
786		+	+	+			+			NT				NT				Antiglobulin

**** Serum 1305 ****						**** Serum 1306 ****				**** Serum 1307 ****				**** Serum 1308 ****				
Ctr	% POS				Other	% POS			Other	% POS			Other	% POS			Other	Method
786	99					99				0				31				FC

FC = Flow cytometry



**Table 31. Individual laboratory results for Serum #1305 - #1308 by C1q - class I**

Ctr	**** Serum 1305 ****							**** Serum 1306 ****								**** Serum 1307 ****				**** Serum 1308 ****				Method				
	% POS	B35	B51	B53	B77	B78	Other	% POS	A2	A69	A68	B57	B62	B75	Cw15	Cw18	Other	% POS				Other	% POS					Other
786	+	+	+					+	+									NT					NT					C1q
2400	+	+	+	+	+			+	+	+	+	+	+	+	+	+	Cw6,Cw2,Cw5	0					0					C1q



**Table 33. Individual laboratory results for Serum #1305 by Luminex SAB - class I**

		**** Serum 1305 ****																																							
Ctr	% POS	A23	A24	A25	A32	B18	B35	B37	B38	B49	B50	B51	B52	B53	B54	B56	B57	B58	B62	B63	B71	B72	B75	B76	B77	B59	B78	B44	B55	A80	B45	B46	B27	A29	A33	B39	A26	A34			
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
774	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
3766	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
3808	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
3966	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
5219	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
6649	70	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8045	52	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8103	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8121		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Table 33. Individual laboratory results for Serum #1305 by Luminex SAB - class I, cont.**

		**** Serum 1305 ****																									
Ctr	% POS	A68	B13	A11	B47	A3	A43	A31	B48	B64	B67	A66	B65	B8	Cw1	Cw15	Bw4	A30	A6601	Cw12	Cw5	A1	A2403	Cw14	Other	Method	
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		+	Cw4,Cw6,B61,B82 >	LMX-SAB	
725		+		+	+		+					+															LMX-SAB
774	95		+		+												+										LMX-SAB
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+		+	A36,Cw7,Cw18	LMX-SAB	
910		+	+	+	+	+	+	+	+	+	+	+	+	+			+	+					+		B2705	LMX-SAB	
2400			+									+															LMX-SAB
3753		+	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+							LMX-SAB
3766	99	+	+	+	+	+	+	+	+	+	+		+	+	+	+		+	+		+	+			B2705,B7801,A1101,A1102 >	LMX-SAB	
3808	35																		+				+		B7801	LMX-SAB	
3966	65	+	+	+	+		+	+	+	+	+	+	+	+	+	+		+									LMX-SAB
4322		+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+		+	Cw4,Cw6,Cw2,Cw7 >	LMX-SAB	
5214		+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+	+						LMX-SAB
5219	34	+		+	+	+						+					+		+				+		A9,B15,B70,A10 >	LMX-SAB	
6649	70	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+					LMX-SAB
8045	52	+		+		+						+											+		B3901	LMX-SAB	
8082		+	+		+	+	+	+	+	+	+		+	+	+	+	+		+	+	+			+	Cw4,Cw6,Cw7,Cw8 >	LMX-SAB	
8086	200		+						+						+												LMX-SAB
8098		+	+	+	+	+	+	+		+	+	+	+		+		+	+		+			+	+	B82,Bw6,B12C,B5C >	LMX-SAB	
8100		+	+	+		+	+	+		+	+	+		+	+	+	+								B5C	LMX-SAB	
8103	24																						+		B15,B7801	LMX-SAB	
8121																							+			LMX-SAB	



**Table 34. Individual laboratory results for Serum #1306 by Luminex SAB - class I, cont.**

**** Serum 1306 ****														
Ctr	A30	A33	B54	A203	A66	B39	B42	B59	A2403	A25	A43	B18	Other	Method
615	+	+	+		+	+	+	+		+	+	+	B60,B61,B48,B47, B*4002 >	LMX-SAB
725													B2708	LMX-SAB
774														LMX-SAB
786	+	+	+		+	+	+	+		+	+	+	B47,B41	LMX-SAB
910	+		+					+		+				LMX-SAB
2400														LMX-SAB
3753	+	+	+		+	+	+					+		LMX-SAB
3766	+	+	+	+	+		+	+	+	+	+		B2705,B2708,B7801,A1101 >	LMX-SAB
3808				+					+				B7801,A1102	LMX-SAB
3966	+	+	+		+	+				+			A26	LMX-SAB
4322		+	+			+	+	+			+	+	B61,B47,B65,B37 >	LMX-SAB
5214														LMX-SAB
5219				+					+				Cw403,A9,B15,B70 >	LMX-SAB
6649	+	+			+							+		LMX-SAB
8045				+					+				Cw403,B2708	LMX-SAB
8082		+	+			+	+	+				+	B61,B47,B65,B37 >	LMX-SAB
8086														LMX-SAB
8098				+					+				Cw403,Bw4,Bw6,B12C >	LMX-SAB
8100	+												A2C	LMX-SAB
8103				+									Cw403,B15	LMX-SAB
8121				+										LMX-SAB

**Table 35. Individual laboratory results for Serum #1307 - 1308 by Luminex SAB - class I**

Ctr	**** Serum 1307 ****				**** Serum 1308 ****					Method
	% POS	A23	Cw17	Other	% POS	B27	B2705	B52	Other	
615						+		+	B38,B59	LMX-SAB
725						+				LMX-SAB
774	0				2	+				LMX-SAB
786		+	+			+		+	B38,B59	LMX-SAB
910		+					+			LMX-SAB
2400	0					+				LMX-SAB
3753		+				+				LMX-SAB
3766					32	+	+	+	B8,B2708	LMX-SAB
3808	0				0					LMX-SAB
3966	9	+	+	Cw4,Cw6,B67,A29 >	9	+		+	B13,B38,B8	LMX-SAB
4322		+	+	Cw4,Cw6		+			B13,B47,B44	LMX-SAB
5214		+					+			LMX-SAB
5219	0				0	+				LMX-SAB
6649	0				1		+			LMX-SAB
8045	0				0					LMX-SAB
8082		+	+	Cw4,Cw6		+			B13	LMX-SAB
8086	200				200					LMX-SAB
8098						+			B7C	LMX-SAB
8100	0					+				LMX-SAB
8103	0				0					LMX-SAB
8121	0					+				LMX-SAB

**Table 36. Individual laboratory results for Serum #1305 - 1308 by Flow cytometry and C1q - class I**

		**** Serum 1305 ****				**** Serum 1306 ****				**** Serum 1307 ****				**** Serum 1308 ****								
Ctr	% POS			Other	% POS			Other	% POS			Other	% POS							Other	Method	
5214	64				96				67				88								FC	

FC = Flow cytometry

		**** Serum 1305 ****				**** Serum 1306 ****				**** Serum 1307 ****				**** Serum 1308 ****											
Ctr	% POS	DR51		Other	% POS	DQ8	DQ9	DR4	Other	% POS			Other	% POS	DQ7	DQ8	DQ9	DR1	DR10	DR4	DR51	DR53	DR9	Other	Method
2400		+				+	+	+		0					+	+	+	+	+	+	+	+	+		C1q



**Table 37. Individual laboratory results for Serum #1305 - #1308 Luminex PRA- class II**

**** Serum 1305 ****													**** Serum 1306 ****																			
Ctr	% POS	DR103	DR15	DR16	DR51	DR9	DR1	DR14	DR4	DQ5	DQ6	Other	% POS	DQ4	DQ5	DQ6	DQ8	DQ9	DR1	DR53	DR4	DR7	DR9	DR10	DR14					Other	Method	
1647		+	+	+	+	+	+							+	+	+	+	+	+	+	+											LMX-PRA
2400	57												86																			LMX-PRA
8058	21	+	+	+	+	+		+	+	+	+		41	+	+	+	+	+	+	+		+	+	+	+					DR15,DR51,DQ2,DQ7 >	LMX-PRA	
3753	50	+	+	+	+	+	+						83	+	+	+	+	+	+	+	+	+	+									LMX-PRA
8112		+	+	+	+	+	+	+	+					+	+	+	+	+	+	+	+	+	+	+	+							LMX-PRA

**** Serum 1307 ****													**** Serum 1308 ****																				
Ctr	% POS	DR11	DR13	DR14	DR17	DR18	DR8	DQ2				Other	% POS	DQ7	DQ8	DQ9	DR1	DR10	DR103	DR15	DR16	DR4	DR51	DR53	DR7	DR9	DR14	DQ2	DQ4	Other	Method		
1647		+	+	+	+	+	+							+	+	+	+	+	+	+	+	+	+	+	+	+	+			DQA1*03	LMX-PRA		
2400	63												91																				LMX-PRA
8058	12	+	+	+	+	+	+	+					44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-PRA
3753	53	+	+	+	+	+	+						90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-PRA
8112		+	+	+	+	+	+							+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX-PRA

**Table 38. Individual laboratory results for Serum #1305 - 1306 by Luminex - class II**

**** Serum 1305 ****														**** Serum 1306 ****															
Ctr	% POS	DR1	DR15	DR16	DR51	DR9	DR103	DR4	DQ6	DR14	DQ5	Other	% POS	DQ6	DQ8	DQ9	DR4	DR53	DQ4	DQ5	DR9	DR1	DR7	DQA1*03	DR14	DQA1*01	DQ7	Other	Method
615		+	+	+	+	+	+	+	+	+	+	DQB1*06:02, DQB1*06:03, DRB1*04:01, DRB1*04:04, DRB1*04:05, DRB1*14:02		+	+	+	+	+	+	+	+	+	+	+	+			DRB1*14:02	LMX-SAB
774	57	+	+	+	+	+	+						89	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB
910		+	+	+	+	+	+	+	+	+		DQA1*01:01, DQB1*06:02, DQB1*06:03 DRB1*04:01, DRB1*04:04, DRB1*04:05, DRB1*14:02		+	+	+	+	+	+	+	+	+	+	+			DRB1*14:02, DQA1*03:01	LMX-SAB	
2400		+	+	+	+	+	+		+					+	+	+	+	+	+	+	+	+	+	+					LMX-SAB
3753		+	+	+	+	+	+	+	+	+	+	DQB1*06:02, DQB1*06:03, DRB1*04:01, DRB1*04:04, DRB1*04:05, DRB1*14:02		+	+	+	+	+	+	+	+	+	+	+	+		DRB1*14:02	LMX-SAB	
3766	47	+	+	+	+	+	+	+	+	+	+		93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51	LMX-SAB
3808	11	+	+	+	+	+	+						28	+	+	+	+	+	+	+	+	+	+		+	DQA1*04	LMX-SAB		
3966	17	+	+	+	+	+	+	+	+	+			29	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*02	LMX-SAB	
4322		+	+	+	+	+	+	+	+	+	+	DQA1*01		+	+	+	+	+	+	+	+	+	+	+	+	+	DR10,DR15,DR51	LMX-SAB	
5214		+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB
5219	11	+	+	+	+	+	+	+				DR2	28	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ1,DQ3,DQA1*04	LMX-SAB	
6649	21	+	+	+	+	+	+	+		+			35	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB
8045	14	+	+	+	+	+	+	+					33	+	+	+	+	+	+	+	+	+	+	+		+			LMX-SAB
8082		+	+	+	+	+	+	+	+	+	+	DQA1*01		+	+	+	+	+	+	+	+	+	+	+	+	+	DR10,DR12,DR15,DR51 >	LMX-SAB	
8086	200	+	+	+	+	+	+		+				200	+	+	+	+	+	+	+	+	+	+			+	DQ2	LMX-SAB	
8098		+	+	+	+	+	+	+						+	+	+	+	+	+	+	+	+	+	+	+	+	DQ2,DQA1*04	LMX-SAB	
8100		+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	DQ2	LMX-SAB	
8103	10	+	+	+	+	+	+						23	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ3,DQA1*02,DQA1*04, DQA1*05>	LMX-SAB	
8121		+	+	+	+	+	+							+	+	+	+	+											LMX-SAB

