

SERUM EXCHANGE #589 MAY 10, 2023

Sera	1352 - 1356
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The results for **Serum Exchange 589 (sera 1352 - 1356)**, are summarized in Tables 1 – 6 and individual laboratory results by method are listed in Tables 7 - 18.

1352	method	#labs	A2	A69	A68	B49	B50	B62	B72	B71	B41	B45	B60	B75	B47	B61	B53	B52	B76	B56
class I	AHG	1	NT																	
	C1q	1	NT																	
	PRA	5	67%	67%	67%	67%	33%		33%		33%	33%	33%	33%	33%	33%	33%			
	SAB	22	100%	100%	96%	92%	92%	88%	83%	83%	67%	67%	67%	58%	46%	46%	42%	63%	63%	54%

1352	method	#labs	B13	B35	B44	B77	B51	A203	B4005	A28	B38	B39	B40	B48	A25	A26	A2C	A6602	B15
	PRA	5																	
	SAB	22	50%	50%	46%	46%	42%	33%	13%	8%	8%	8%	8%	8%	4%	4%	4%	4%	4%

1352	method	#labs	DR11	DR12	DR13	DR14	DR8	DR17	DR18	DQ6	DR103	DR16	DR52	DQ5	DR51	DR15	DR4
class II	PRA	4	67%	67%	67%	67%	67%	67%	67%	67%	33%	33%		33%		33%	
	SAB	21	100%	100%	100%	100%	100%	100%	92%	100%	100%	100%	100%	92%	92%	54%	88%

1352	method	#labs	DQ4	DQA1*01	DQA1*03	DR1403	DR1404	DQ1	DR3	DQA1*04	DR1	DR2	DR5	DR6	DP10	DP11	DP13
	SAB	21	63%	42%	21%	17%	17%	13%	13%	8%	8%	8%	8%	8%	4%	4%	4%

Serum 1352. Strong anti-A2 (13736) and -A69 (12488) reactivity was detected in this sample by PRA and 100% of SAB labs. In addition, > 90% of SAB labs reported reactivity to A68 (5056), B49 (4284), and B50 (4481).

Strong class II reactivity was also detected in this sample, with PRA and 100% of SAB labs reporting reactivity to DR11 (14313), DR12 (13610), DR13

(15534), DR14 (7950), DR8 (11897), DR17 (6951), DQ6 (4561), DR103 (14013), and DR16 (14190). Additional anti-DR18 (7629), -DR52 (4517), -DR51 (14860), and -DQ5 (4090) reactivity was also reported by > 90% of SAB labs. Allele specific DR*14:03 (5758) and DR*14:04 (3926) reactivity was reported by several labs.

*(median MFI by SAB)

1353	method	#labs	A2	A68	A69	B57	B58	A203	A24	A2403	Cw4	A2C	A28	A80	B56
class I	AHG	1	no consensus												
	C1q	1	no consensus												
	PRA	5	67%	67%	67%	67%	67%								
	SAB	22	96%	96%	96%	92%	92%	28%	12%	4%	12%	4%	4%	4%	4%

1353	method	#labs	DR1	DR103	DR10	DR51	DR9	DPw1	DPw5	DQ1	DQ5	DQ6
class II	PRA	4	67%	67%	67%	67%						
	SAB	21	92%	92%	92%	92%	38%	29%	4%	4%	4%	4%

Serum 1353. Strong anti-A2 (15272) reactivity was detected in this sample by all methods. Additional reactivity to A68 (13305), A69 (12880), B57 (5502), and B58 (4111) was also reported by PRA and > 90% of SAB labs.

Class II reactivity was detected in this sample as well, with PRA and 92% of SAB labs reporting reactivity to DR1 (5683), DR103 (6114), DR10 (2930), and DR51 (3147).

*(median MFI by SAB)

1354	method	#labs	B13	B49	B50	B60	B61	B44	B45	B41	B62	B76	B47	B72	B75	B53	B52	B7	B77	
class I	AHG	1	NT																	
	C1q	1	no consensus																	
	PRA	5	67%	33%	33%	67%	67%	67%	67%	33%	33%		33%	33%	33%	33%	33%	33%		
	SAB	22	100%	100%	100%	96%	96%	100%	100%	100%	100%	100%	96%	96%	96%	92%	88%	92%	96%	
1354	method	#labs	B38	B63	B71	B35	B27	B2708	B2705	B48	B81	B8101	B56	B59	B51	B57	B39	B3901	B37	B46
	PRA	5								33%	33%		33%							
	SAB	22	92%	92%	92%	84%	84%	36%	20%	76%	76%	16%	64%	84%	84%	76%	72%	20%	64%	52%
1354	method	#labs	B58	B78	B7801	B67	B73	A66	A6602	B55	B4005	Bw4	B15	B40	B12	B21	B54	Bw6	A203	B12C
	SAB	22	40%	36%	8%	20%	28%	20%	20%	20%	16%	16%	12%	12%	8%	8%	8%	8%	4%	4%

1354	method	#labs	DR4	DR53	DPw1	DPw5	DP14	DPA1*02	DQ3	DQ8
class II	PRA	4	67%							
	SAB	21	88%	92%	42%	8%	4%	4%	4%	4%

Serum 1354. Strong anti-B13 (20876), -B49 (13089), -B60 (12230), and -B61 (12899) reactivity was detected in this sample by C1q, PRA, and SAB labs. Additional reactivity to B44 (10049), B45 (11764), B38 (4299), along with reactivity to a number of 5C and 7C specificities, including B41 (11192) and

B50 (11531), was reported by PRA and SAB labs.

Labs reporting by PRA and SAB reported weak anti-DR4 (1625) reactivity in this sample. Additional anti-DR53 (3339) and -DP1 (3255) reactivity was also reported by SAB.

*(median MFI by SAB)

1355	method	#labs	A2	A68	A69	B49	B50	B44	B45	B56	B63	B71	B72	B75	B76	B77	B35	B53	B62	B13	B7	B41	B61	A24	A2403	B47
class I	AHG	1	no consensus																							
	C1q	1	no consensus																							
	PRA	5				33%	33%		33%	33%	33%	33%	33%	33%		33%	33%	33%	33%	33%	33%	33%	33%			
	SAB	22	96%	100%	96%	100%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	96%	96%	96%	96%	96%	96%	96%	96%	28%	96%
1355	method	#labs	B57	B58	B46	B51	B52	B78	B7801	B60	B27	B2708	B2705	B81	B8101	B55	B48	B73	B67	B42	A66	A6602	B54	Cw10	Cw9	B64
	PRA	5				33%	33%	33%		33%	33%				33%	33%	33%	33%								
	SAB	22	96%	96%	92%	92%	92%	92%	20%	92%	88%	36%	20%	88%	16%	84%	76%	76%	68%	72%	68%	48%	68%	64%	60%	56%
1355	method	#labs	B39	B3901	A23	Cw2	A203	B4005	B82	B15	B40	B59	B703	Bw4	A28	A2C	B12	B18	B21	B22	B70	B8201	Bw6	A10	A9	B12C
	SAB	22	40%	8%	36%	32%	28%	16%	16%	12%	12%	12%	12%	12%	8%	8%	8%	8%	8%	8%	8%	8%	8%	4%	4%	4%

1355	method	#labs	DR4	DR7	DQ8	DQ9	DQ5	DQ6	DQ1	DR1	DR9	DR10	DR12	DQ4	DQ3	DR103	DR15	DR53	DPw3	DPw5	DPw6				
class II	PRA	4	33%	33%	33%	33%	33%	33%		33%	33%	33%		33%		33%									
	SAB	21	100%	100%	96%	96%	100%	96%	8%	100%	100%	100%	100%	96%	13%	96%	96%	96%	96%	96%	96%	96%			
1355	method	#labs	DP13	DP11	DPw1	DR51	DR52	DP19	DQA1*03	DP14	DP17	DP9	DR14	DP10	DP20	DPA1*02	DQA1*01	DQA1*04	DP18	DP28	DP15				
	SAB	21	96%	92%	92%	92%	88%	88%	88%	83%	83%	83%	71%	63%	63%	50%	50%	29%	25%	25%	21%				
1355	method	#labs	DPA1*03	DQ2	DQ7	DR16	DQA1*02	DP26	DP31	DPA1*01	DR2	DR3	DR17	DR5	DR11	DR8	DR13	DP105	DP107	DP30					
	SAB	21	21%	21%	21%	17%	13%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	4%	4%	4%					

Serum 1355. For this sample, anti-A2, -A28 (A68, A69), and -B21 (B49, B50) reactivity was reported by various methods. Respective median MFI values for each were 10628, 11706, 10220, 17286, and 16319. Additional reactivity to a number of 5C and 7C specificities, including B56 (12900), B71 (10936), B72 (12238), B62 (12214), and B13 (10052), was reported by PRA and SAB labs.

Strong class II reactivity was reported in this sample by PRA and SAB, with > 90% of SAB labs reporting reactivity to DR and DQ specificities, including DR4 (16256), DR7 (12079), DQ8 (11792), and DQ9 (11275). Additional reactivity to a number of DP specificities, including DP3 (7218), DP5 (8386), DP6 (6700), DP13 (6388), DP11 (7141), and DPw1 (7621), was also reported by > 90% of SAB labs.

*(median MFI by SAB)

1356	method	#labs	B27	B2708	B2705	B48	B59	B8	B7	B81	B38	B73	B42	B56	B64	B65	B72
class I	AHG	1	NT														
	C1q	1	no consensus														
	PRA	5	67%														
	SAB	22	100%	32%	28%	56%	52%	52%	44%	44%	40%	40%	36%	36%	36%	36%	36%

1356	method	#labs	B82	B8201	B39	B3901	B3902	B55	B60	B61	A6602	A66	B46	B71	B8101	Cw8	B37	B40
	SAB	22	36%	4%	20%	4%	4%	20%	20%	20%	16%	12%	16%	16%	8%	8%	4%	4%

1356	method	#labs	NEG	DR14	DR52	DP20	DR4	DP11	DP28	DR16	DR9	DP13	DP15	DPw5	DQ2	DR12	DP10	DPw4	DPA1*03	DPw6
class II	PRA	4	67%																	
	SAB	21	38%	52%	52%	48%	48%	43%	43%	43%	43%	38%	38%	38%	38%	38%	33%	33%	29%	29%

1356	method	#labs	DQA1*04	DP402	DQ4	DQ6	DQ8	DR15	DPA1*02	DPA1*04	DQA1*01	DR17	DP26	DP31	DPw2	DQA1*03	DR1	DR10	DR18	DR8
	SAB	21	29%	19%	19%	19%	19%	19%	14%	14%	14%	14%	10%	10%	10%	10%	10%	10%	10%	10%

Serum 1356. Labs reporting by PRA and SAB detected anti-B27 (6799) reactivity in this sample. Allele specific B*27:05 (5676) and B*27:08 (2477) reactivity was also reported by SAB. One lab reporting by C1q detected no C1q binding of class I antibodies.

The reporting of class II specificities was mixed among labs. Among labs

reporting by PRA, 67% reported the sample as class II negative. For SAB, 38% reported it as negative, while 52% reported weak anti-DR14 (1933) and -DR52 (1640) reactivity. Additional reactivity to DQ2 (2946), as well as to a number of DR and DP specificities was also reported by SAB. This sample was not graded for class II as consensus was < 90%.

*(median MFI by SAB)

NEXT MAILING DATE: October 4, 2023

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Table 1. Summary of the 589th Serum Exchange (Serum #1352-1356) by Antiglobulin - class I

Method: Antiglobulin																								
*** Serum 1352 ***					*** Serum 1353 ***					*** Serum 1354***					*** Serum 1355 ***					*** Serum 1356***				
1 typing Lab					1 typing Lab					1 typing Lab					1 typing Lab					1 typing Lab				
Antigen	Consensus	Inclusion			Antigen	Consensus	Inclusion			Antigen	Consensus	Inclusion			Antigen	Consensus	Inclusion			Antigen	Consensus	Inclusion		
NT					no consensus					NT					no consensus					NT				

Table 2. Summary of the 589th Serum Exchange (Serum #1352-1356) by C1q - class I

Method: C1q																								
*** Serum 1352 ***					*** Serum 1353 ***					*** Serum 1354 ***					*** Serum 1355 ***					*** Serum 1356 ***				
1 typing Lab					1 typing Lab					1 typing Lab					1 typing Lab					1 typing Lab				
Antigen	Consensus	Inclusion			Antigen	Consensus	Inclusion			Antigen	Consensus	Inclusion			Antigen	Consensus	Inclusion			Antigen	Consensus	Inclusion		
NT					no consensus																			

Table 3. Summary of the 589th Serum Exchange (Serum #1352-1356) by PRA - class I

Method: Luminex-PRA														
*** Serum 1352 ***			*** Serum 1353 ***			*** Serum 1354 ***			*** Serum 1355 ***			*** Serum 1356 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A2	67%	100%	A2	67%	100%	B13	67%	100%	B13	33%	100%	B27	67%	100%
A68	67%	100%	A68	67%	100%	B44	67%	100%	B27	33%	100%	B35	33%	100%
A69	67%	100%	A69	67%	100%	B45	67%	100%	B35	33%	100%	B41	33%	100%
B49	67%	100%	B57	67%	100%	B60	67%	100%	B41	33%	100%	B45	33%	100%
B41	33%	100%	B58	67%	100%	B61	67%	100%	B45	33%	100%	B48	33%	100%
B45	33%	100%				B41	33%	100%	B48	33%	100%	B49	33%	100%
B47	33%	100%				B47	33%	100%	B49	33%	100%	B50	33%	100%
B50	33%	100%				B48	33%	100%	B50	33%	100%	B51	33%	100%
B53	33%	100%				B49	33%	100%	B51	33%	100%	B52	33%	100%
B60	33%	100%				B50	33%	100%	B52	33%	100%	B53	33%	100%
B61	33%	100%				B52	33%	100%	B53	33%	100%	B55	33%	100%
B62	33%	100%				B53	33%	100%	B55	33%	100%	B56	33%	100%
B72	33%	100%				B56	33%	100%	B56	33%	100%	B60	33%	100%
B75	33%	100%				B62	33%	100%	B60	33%	100%	B61	33%	100%
						B7	33%	100%	B61	33%	100%	B62	33%	100%
						B72	33%	100%	B62	33%	100%	B63	33%	100%
						B75	33%	100%	B63	33%	100%	B67	33%	100%
						B81	33%	100%	B67	33%	100%	B7	33%	100%
									B7	33%	100%	B71	33%	100%
									B71	33%	100%	B72	33%	100%
									B72	33%	100%	B73	33%	100%
									B73	33%	100%	B75	33%	100%
									B75	33%	100%	B77	33%	100%
									B77	33%	100%	B78	33%	100%
									B78	33%	100%			

Table 4. Summary of the 589th Serum Exchange (Serum #1352-1356) by Single Antigen - class I

Method: Luminex - SAB														
*** Serum 1352 ***			*** Serum 1353 ***			*** Serum 1354 ***			*** Serum 1355 ***			*** Serum 1356 ***		
24 typing Labs			25 typing Labs			25 typing Labs			25 typing Labs			25 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A2	100%	100%	A2	96%	100%	B13	100%	100%	A2	100%	100%	B27	100%	100%
A69	100%	100%	A68	96%	100%	B41	100%	100%	A68	100%	100%	B48	56%	100%
A68	96%	100%	A69	96%	100%	B44	100%	100%	B44	100%	100%	B59	52%	100%
B49	92%	100%	B57	92%	100%	B45	100%	100%	B45	100%	100%	B8	52%	100%
B50	92%	100%	B58	92%	100%	B49	100%	100%	B49	100%	100%	B7	44%	100%
B62	88%	100%	A203	28%	100%	B50	100%	100%	B50	100%	100%	B81	44%	100%
B71	83%	100%	A24	12%	100%	B62	100%	100%	B56	100%	100%	B38	40%	100%
B72	83%	100%	Cw4	12%	100%	B76	100%	100%	B63	100%	100%	B73	40%	100%
B41	67%	100%	A2403	4%	100%	B47	96%	100%	B71	100%	100%	B42	36%	100%
B45	67%	100%	A28	4%	100%	B60	96%	100%	B75	100%	100%	B56	36%	100%
B60	67%	100%	A2C	4%	100%	B61	96%	100%	B76	100%	100%	B64	36%	100%
B52	63%	100%	A80	4%	100%	B72	96%	100%	B77	100%	100%	B65	36%	100%
B76	63%	100%	B56	4%	100%	B75	96%	100%	A24	96%	100%	B72	36%	100%
B75	58%	100%	NEG	4%	-	B77	96%	100%	A69	96%	100%	B82	36%	100%
B56	54%	100%				B38	92%	100%	B13	96%	100%	B2708	32%	100%
B13	50%	100%				B53	92%	100%	B35	96%	100%	B2705	28%	100%
B35	50%	100%				B63	92%	100%	B41	96%	100%	B39	20%	100%
B44	46%	100%				B7	92%	100%	B47	96%	100%	B55	20%	100%
B47	46%	100%				B71	92%	100%	B53	96%	100%	B60	20%	100%
B61	46%	100%				B52	88%	100%	B57	96%	100%	B61	20%	100%
B77	46%	100%				B27	84%	100%	B58	96%	100%	A6602	16%	100%
B51	42%	100%				B35	84%	100%	B61	96%	100%	B46	16%	100%
B53	42%	100%				B51	84%	100%	B62	96%	100%	B71	16%	100%
A203	33%	100%				B59	84%	100%	B7	96%	100%	A66	12%	100%
B4005	13%	100%				B48	76%	100%	B72	96%	100%	B8101	8%	100%
A28	8%	100%				B57	76%	100%	B46	92%	100%	Cw8	8%	100%
B38	8%	100%				B81	76%	100%	B51	92%	100%	B37	4%	100%
B39	8%	100%				B39	72%	100%	B52	92%	100%	B3901	4%	100%
B40	8%	100%				B37	64%	100%	B60	92%	100%	B3902	4%	100%
B48	8%	100%				B56	64%	100%	B78	92%	100%	B40	4%	100%
A25	4%	100%				B46	52%	100%	B27	88%	100%	B8201	4%	100%
A26	4%	100%				B58	40%	100%	B81	88%	100%	Bw4	4%	100%
A2C	4%	100%				B2708	36%	100%	B55	84%	100%	Cw10	4%	100%
A6602	4%	100%				B78	36%	100%	B48	76%	100%	Cw16	4%	100%
B15	4%	100%				B73	28%	100%	B73	76%	100%	Cw3	4%	100%

Table 4. Summary of the 589th Serum Exchange (Serum #1352-1356) by Single Antigen - class I

Method: Luminex - SAB, cont.														
*** Serum 1352 ***			*** Serum 1353 ***			*** Serum 1354 ***			*** Serum 1355 ***			*** Serum 1356 ***		
24 typing Labs			25 typing Labs			25 typing Labs			25 typing Labs			25 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B37	4%	100%				A66	20%	100%	B42	72%	100%	Cw7	4%	100%
B3901	4%	100%				A6602	20%	100%	A66	68%	100%	Cw9	4%	100%
B54	4%	100%				B2705	20%	100%	B54	68%	100%			
B59	4%	100%				B3901	20%	100%	B67	68%	100%			
B78	4%	100%				B55	20%	100%	Cw10	64%	100%			
B7801	4%	100%				B67	20%	100%	Cw9	60%	100%			
Bw4	4%	100%				B4005	16%	100%	B64	56%	100%			
						B8101	16%	100%	A6602	48%	100%			
						Bw4	16%	100%	B39	40%	100%			
						B15	12%	100%	A23	36%	100%			
						B40	12%	100%	B2708	36%	100%			
						B12	8%	100%	Cw2	32%	100%			
						B21	8%	100%	A203	28%	100%			
						B54	8%	100%	A2403	28%	100%			
						B7801	8%	100%	B2705	20%	100%			
						Bw6	8%	100%	B7801	20%	100%			
						A203	4%	100%	B4005	16%	100%			
						B12C	4%	100%	B8101	16%	100%			
						B18	4%	100%	B82	16%	100%			
						B70	4%	100%	B15	12%	100%			
						B703	4%	100%	B40	12%	100%			
						Cw2	4%	100%	B59	12%	100%			
						Cw5	4%	100%	B703	12%	100%			
						Cw6	4%	100%	Bw4	12%	100%			
									A28	8%	100%			
									A2C	8%	100%			
									B12	8%	100%			
									B18	8%	100%			
									B21	8%	100%			
									B22	8%	100%			
									B3901	8%	100%			
									B70	8%	100%			
									B8201	8%	100%			
									Bw6	8%	100%			
									A10	4%	100%			

Table 5. Summary of the 589th Serum Exchange (Serum #1352-1356) by PRA - class II

Method: Luminex - PRA														
*** Serum 1352 ***			*** Serum 1353 ***			*** Serum 1354 ***			*** Serum 1355 ***			*** Serum 1356 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion												
DQ6	67%	100%	DR1	67%	100%	DR4	67%	100%	DQ4	33%	100%	NEG	67%	-
DR11	67%	100%	DR10	67%	100%				DQ5	33%	100%			
DR12	67%	100%	DR103	67%	100%				DQ6	33%	100%			
DR13	67%	100%	DR51	67%	100%				DQ8	33%	100%			
DR14	67%	100%							DQ9	33%	100%			
DR17	67%	100%							DR1	33%	100%			
DR18	67%	100%							DR10	33%	100%			
DR8	67%	100%							DR103	33%	100%			
DQ5	33%	100%							DR4	33%	100%			
DR103	33%	100%							DR7	33%	100%			
DR15	33%	100%							DR9	33%	100%			
DR16	33%	100%												

Table 6. Summary of the 589th Serum Exchange (Serum #1352-1356) by Single Antigen - class II

Method: Luminex - SAB														
*** Serum 1352 ***			*** Serum 1353 ***			*** Serum 1354 ***			*** Serum 1355 ***			*** Serum 1356 ***		
24 typing Labs			24 typing Labs			24 typing Labs			24 typing Labs			21 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ6	100%	100%	DR1	92%	100%	DR53	92%	100%	DQ5	100%	100%	DR14	52%	100%
DR11	100%	100%	DR10	92%	100%	DR4	88%	100%	DR1	100%	100%	DR52	52%	100%
DR12	100%	100%	DR103	92%	100%	DPw1	42%	100%	DR10	100%	100%	DP20	48%	100%
DR13	100%	100%	DR51	92%	100%	DPw5	8%	100%	DR4	100%	100%	DR4	48%	100%
DR14	100%	100%	DR9	38%	100%	DP14	4%	100%	DR7	100%	100%	DP11	43%	100%
DR17	100%	100%	DPw1	29%	100%	DPA1*02	4%	100%	DR9	100%	100%	DP28	43%	100%
DR8	100%	100%	DPw5	4%	100%	DQ3	4%	100%	DR12	100%	100%	DR16	43%	100%
DR103	100%	100%	DQ1	4%	100%	DQ8	4%	100%	DQ4	96%	100%	DR9	43%	100%
DR16	100%	100%	DQ5	4%	100%				DQ6	96%	100%	NEG	38%	-
DR52	100%	100%	DQ6	4%	100%				DQ8	96%	100%	DP13	38%	100%
DR51	92%	100%							DQ9	96%	100%	DP15	38%	100%
DR18	92%	100%							DR103	96%	100%	DPw5	38%	100%
DQ5	92%	100%							DP13	96%	100%	DQ2	38%	100%
DR4	88%	100%							DPw3	96%	100%	DR12	38%	100%
DQ4	63%	100%							DPw5	96%	100%	DP10	33%	100%
DR15	54%	100%							DPw6	96%	100%	DPw4	33%	100%
DQA1*01	42%	100%							DR15	96%	100%	DPA1*03	29%	100%
DQA1*03	21%	100%							DR53	96%	100%	DPw6	29%	100%
DR1403	17%	100%							DP11	92%	100%	DQA1*04	29%	100%
DR1404	17%	100%							DPw1	92%	100%	DP402	19%	100%
DQ1	13%	100%							DR51	92%	100%	DQ4	19%	100%
DR3	13%	100%							DP19	88%	100%	DQ6	19%	100%
DQA1*04	8%	100%							DQA1*03	88%	100%	DQ8	19%	100%
DR1	8%	100%							DR52	88%	100%	DR15	19%	100%
DR2	8%	100%							DP14	83%	100%	DPA1*02	14%	100%
DR5	8%	100%							DP17	83%	100%	DPA1*04	14%	100%
DR6	8%	100%							DP9	83%	100%	DQA1*01	14%	100%
DP10	4%	100%							DR14	71%	100%	DR17	14%	100%
DP11	4%	100%							DP10	63%	100%	DP26	10%	100%
DP13	4%	100%							DP20	63%	100%	DP31	10%	100%
DP17	4%	100%							DPA1*02	50%	100%	DPw2	10%	100%
DPA1*01	4%	100%							DQA1*01	50%	100%	DQA1*03	10%	100%
DPw3	4%	100%							DQA1*04	29%	100%	DR1	10%	100%
DPw6	4%	100%							DP18	25%	100%	DR10	10%	100%
DQ2	4%	100%							DP28	25%	100%	DR18	10%	100%
DQ8	4%	100%							DP15	21%	100%	DR8	10%	100%

Table 6. Summary of the 589th Serum Exchange (Serum #1352-1356) by Single Antigen - class II

Method: Luminex - SAB, cont.											
*** Serum 1352 ***						*** Serum 1355 ***			*** Serum 1356 ***		
24 typing Labs						24 typing Labs			21 typing Labs		
Antigen	Consensus	Inclusion				Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR9	4%	100%				DPA1*03	21%	100%	DP105	5%	100%
						DQ2	21%	100%	DP107	5%	100%
						DQ7	21%	100%	DP40	5%	100%
						DR16	17%	100%	DPA1*01	5%	100%
						DQ3	13%	100%	DR103	5%	100%
						DQA1*02	13%	100%	DR13	5%	100%
						DP26	8%	100%	DR3	5%	100%
						DP31	8%	100%	DR51	5%	100%
						DPA1*01	8%	100%	DR53	5%	100%
						DQ1	8%	100%	DR7	5%	100%
						DR11	8%	100%			
						DR13	8%	100%			
						DR17	8%	100%			
						DR2	8%	100%			
						DR3	8%	100%			
						DR5	8%	100%			
						DR8	8%	100%			
						DP105	4%	100%			
						DP107	4%	100%			
						DP30	4%	100%			
						DP85	4%	100%			
						DPA1*04	4%	100%			
						DPw2	4%	100%			
						DPw4	4%	100%			
						DR1403	4%	100%			
						DR1404	4%	100%			
						DR18	4%	100%			
						DR6	4%	100%			

Table 7. Individual laboratory results for Serum #1352 - 1356 by Antiglobulin - class I

		**** Serum 1352 ****				**** Serum 1353 ****				**** Serum 1354 ****						**** Serum 1355 ****						**** Serum 1356 ****				
Ctrl	%			Other	%	A2		Other	%	POS		Other		%	POS	A2	A28	B21	B49	Other	%	POS		Other	Method	
786	NT					+			NT						+	+	+	+			NT				Antiglobulin	

Table 8. Individual laboratory results for Serum #1352 - 1356 by C1q - class I

		**** Serum 1352 ****			**** Serum 1353 ****			**** Serum 1354 ****					**** Serum 1355 ****														**** Serum 1356 ****													
Ctr	% POS			Other	% POS	A2		Other	% POS	B13	B49	B60	B61	Other	% POS	A2	A68	A69	B13	B35	B41	B44	B45	B47	B49	B50	B51	B53	B56	B60	B61	B62	B63	Other	% POS			Other	Method	
786	NT					+				+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B71,B72,B75	0				C1q

Table 9. Individual laboratory results for Serum #1352 - 1356 by PRA - class I

**** Serum 1352 ****														**** Serum 1353 ****												
Ctr	% POS	A2	A68	A69	B49	B41	B45	B47	B50	B53	B60	B61	Other	% POS	A2	A68	A69	B57	B58						Other	
2400	57													41												
3753	60	+	+	+	+	+	+	+	+	+	+	+	B62,B75,B72	42	+	+	+	+	+							
4079	41	+	+	+	+									41	+	+	+	+	+							

**** Serum 1354 ****														**** Serum 1355 ****										**** Serum 1356 ****							
Ctr	% POS	B13	B44	B45	B60	B61	B41	B47	B48	B49	B50		Other	% POS	B13	B27	B35	B41	B45	B48	B49	B50	B51	B52	Other	% POS	B27			Other	Method
2400	79													96												5					LMX-PRA
3753	74	+	+	+	+	+	+	+	+	+	+		B62,B52,B53,B75 >	88	+	+	+	+	+	+	+	+	+	+	B60,B61,B78,B62 >	22	+				LMX-PRA
4079	68	+	+	+	+	+								96												7	+				LMX-PRA

Table 12. Individual laboratory results for Serum #1355 by Single Antigen - class I

**** Serum 1355, cont. ****						
Ctr	B39	A23	Cw2	A203	Other	Method
230					B4005	LMX-SAB
716						LMX-SAB
725		+			B82,B703	LMX-SAB
786	+	+	+			LMX-SAB
910	+					LMX-SAB
2400						LMX-SAB
3224		+				LMX-SAB
3753	+					LMX-SAB
3766				+	B8101	LMX-SAB
3808		+		+	B703,B8101	LMX-SAB
3966	+	+	+			LMX-SAB
4079		+	+	+	B82	LMX-SAB
4322	+		+	+	B82,B18,B59,B8101 >	LMX-SAB
5219				+	A9,B40,B15,B70 >	LMX-SAB
5462					A*66:02	LMX-SAB
6649	+					LMX-SAB
8082	+		+		B82,B18,B59	LMX-SAB
8090	+		+			LMX-SAB
8098		+		+	B703,B8201	LMX-SAB
8100					B40,B4005	LMX-SAB
8103	+		+	+	B40,B15,B14,B59 >	LMX-SAB
8112		+			A2C	LMX-SAB
8121					B15,B70,B21,B22 >	LMX-SAB
8125					B4005	LMX-SAB
8128	+	+	+		B4005	LMX-SAB

Table 13. Individual laboratory results for Serum #1356 by Single Antigen - class I

**** Serum 1356 ****																								
Ctr	% POS	B27	B2708	B2705	B48	B59	B8	B7	B81	B38	B73	B42	B56	B64	B65	B72	B82	B39	B55	B60	B61	Other	Method	
230		+			+	+	+																	LMX-SAB
716	2		+	+																				LMX-SAB
725		+																						LMX-SAB
786		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B71	LMX-SAB
910		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB
2400		+			+	+	+																	LMX-SAB
3224	67	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B71	LMX-SAB
3753		+																						LMX-SAB
3766	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		A66,B46,B8101,A6602 >	LMX-SAB
3808	2		+	+																				LMX-SAB
3966	19	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				B71	LMX-SAB
4079		+	+	+																				LMX-SAB
4322		+	+	+				+													+	+		LMX-SAB
5219	0			+																				LMX-SAB
5462		+			+	+	+																	LMX-SAB
6649	15	+			+	+	+	+	+	+	+	+	+	+	+	+	+							LMX-SAB
8082		+																					B46	LMX-SAB
8090		+			+	+	+	+	+	+	+	+	+	+	+	+	+						B46,A6602	LMX-SAB
8098		+	+																					LMX-SAB
8100		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				A66,B71,Cw8,A6602 >	LMX-SAB
8103		+	+	+	+			+	+		+										+	+	B40,A66,B37,B46 >	LMX-SAB
8112		+			+	+	+		+	+														LMX-SAB
8121	1	+	+																				Bw4	LMX-SAB
8125		+																						LMX-SAB
8128		+			+	+	+	+	+	+	+	+	+	+	+	+	+							LMX-SAB

Table 14. Individual laboratory results for Serum #1352 - 1356 by PRA - class II

**** Serum 1352 ****											**** Serum 1353 ****					
Ctr	% POS	DQ6	DR11	DR12	DR13	DR14	DR17	DR18	DR8	Other	% POS	DR1	DR10	DR103	DR51	Other
2400	91										37					
3753	93	+	+	+	+	+	+	+	+	DR103,DR15,DR16,DQ5	42	+	+	+	+	
4079	89	+	+	+	+	+	+	+	+		31	+	+	+	+	

**** Serum 1354 ****										**** Serum 1355 ****							**** Serum 1356 ****						
Ctr	% POS	DR4								Other	% POS	DQ4	DQ5	DQ6	DQ8	DQ9	DR1	Other	% POS			Other	Method
2400	17										100								40				LMX-PRA
3753	13	+									90	+	+	+	+	+	+	DR103,DR4,DR7,DR9 >	0				LMX-PRA
4079	23	+									89								0				LMX-PRA

Table 15. Individual laboratory results for Serum #1352 by Single Antigen - class II

**** Serum 1352 ****																					
Ctr	% POS	DQ6	DR103	DR11	DR12	DR13	DR14	DR16	DR17	DR52	DR8	DR18	DR51	DQ5	DR4	DQ4	DR15	DQA1*01	DQA1*03	Other	Method
230		+	+	+	+	+	+	+	+	+	+	+	+	+				+			LMX-SAB
716	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+			LMX-SAB
725		+	+	+	+	+	+	+	+	+	+	+	+		+						LMX-SAB
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DRB1*04:02, DRB5*01:01	LMX-SAB
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX-SAB
3224	37	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+			LMX-SAB
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DRB1*04:02, DRB5*01	LMX-SAB
3766	92	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DRB1*04:02,DRB1*04:05, DR1,DR9,DQ2,DQ8 >	LMX-SAB
3808	23	+	+	+	+	+	+	+	+	+	+	+	+		+					DR1403,DR1404	LMX-SAB
3966	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	DQ1	LMX-SAB
4079		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*04	LMX-SAB
5219	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+		DR2,DR3,DR5,DR6 >	LMX-SAB
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DRB5*01:01, DRB1*04:02	LMX-SAB
6649	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*04	LMX-SAB
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	DRB1*04:02, DRB5*01:01, DQB1*04:02	LMX-SAB
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		DR1403,DR1404	LMX-SAB
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB
8103		+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	DR1,DR3	LMX-SAB
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB
8121	25	+	+	+	+	+	+	+	+	+	+	+	+	+	+					DR2,DR3,DR5,DR6 >	LMX-SAB
8125		+	+	+	+	+	+	+	+	+	+	+	+	+				+			LMX-SAB
8128		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB

Table 16. Individual laboratory results for Serum #1353 - 1354 by Single Antigen - class II

Ctr	**** Serum 1353 ****								**** Serum 1354 ****					Method
	% POS	DR1	DR10	DR103	DR51	DR9	DPw1	Other	% POS	DR53	DR4	DPw1	Other	
230		+	+	+	+					+				LMX-SAB
716	6	+	+	+	+					3	+		+ DPA1*02	LMX-SAB
725		+	+	+	+							+		LMX-SAB
910			+	+	+	+	+				+	+		LMX-SAB
2400			+	+	+	+		+			+	+	+	LMX-SAB
3224	9	+	+	+	+	+				8	+	+		LMX-SAB
3753			+	+	+	+					+	+		LMX-SAB
3766	45	+	+	+	+	+	+			50	+	+	+	LMX-SAB
3808	5	+	+	+	+					6	+	+		LMX-SAB
3966	7	+	+	+	+		+			9	+	+	+ DPw5	LMX-SAB
4079			+	+	+	+					+	+		LMX-SAB
4322			+	+	+	+	+				+	+	+	LMX-SAB
5219	4	+	+	+	+					0		+		LMX-SAB
5462			+	+	+	+					+	+		LMX-SAB
6649	7	+	+	+	+					8	+	+		LMX-SAB
8082			+	+	+	+	+				+	+	+ DPw5	LMX-SAB
8090			+	+	+	+	+				+	+		LMX-SAB
8098			+	+	+	+					+	+		LMX-SAB
8100			+	+	+	+	+	+	DPw5		+	+	+	LMX-SAB
8103			+	+	+	+	+				+	+	DP14	LMX-SAB
8112			+	+	+	+		+			+	+	+	LMX-SAB
8121	7	+	+	+	+	+		DQ1,DQ5,DQ6		6	+	+	DQ3,DQ8	LMX-SAB
8125			+	+	+	+		+			+		+	LMX-SAB
8128			+	+	+	+		+			+	+	+	LMX-SAB

Table 18. Individual laboratory results for Serum #1356 by Single Antigen - class II

**** Serum 1356 ****																						
Ctr	% POS	DR14	DR52	DP20	DR4	DP11	DP28	DR16	DR9	DP13	DP15	DPW5	DQ2	DR12	DP10	DPW4	DPA1*03	DPW6	DQA1*04	Other	Method	
230																						LMX-SAB
716	5	+	+	+						+			+					+		+		LMX-SAB
725	0																					LMX-SAB
910	0																					LMX-SAB
2400													+									LMX-SAB
3224	0																					LMX-SAB
3753	0																					LMX-SAB
3766	70	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		DRB1*14:01, DRB1*14:54, DRB1*04:04, DRB1*09:01, DRB1*16:01, DRB1*12:01, DQB1*06:02, DQ4,DQ8,DQ6,DP402	LMX-SAB	
3808	0																					LMX-SAB
3966	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	DR1,DR10,DR15,DR17 >	LMX-SAB	
4079	0																					LMX-SAB
4322		+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	DR15,DR17,DR18,DQ4 >	LMX-SAB
5219	0																					LMX-SAB
5462					+								+									LMX-SAB
6649	19	+	+		+			+	+				+								DQ8	LMX-SAB
8082		+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	DR15,DQ4,DQ6,DPA1*02 >	LMX-SAB
8090		+	+	+	+	+	+	+	+		+			+	+						DP402, DRB1*04:04, DRB1*09:01, DRB1*12:01, DRB1*14:01, DRB1*16:01, DRB3*02:02	LMX-SAB
8098	NT																					LMX-SAB
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		DR8,DR13,DQ4,DQ8 >	LMX-SAB
8103		+	+		+	+	+	+	+	+		+		+		+	+	+			DR1,DR103,DR3,DR7 >	LMX-SAB
8112		+	+	+	+	+	+		+	+	+	+	+			+					DQ8	LMX-SAB
8121	0																					LMX-SAB
8125	NT																					LMX-SAB
8128		+	+	+	+	+	+	+			+	+		+	+					+	DP26,DP31	LMX-SAB