

REPORT OF THE 396th CELL EXCHANGE

FEBRUARY 8, 2017

B-cell Lines	533-534
Cells	1581-1584
Sera	1209-1216

B-cell Line Exchange #267

The results for B-cell Line Exchange #267 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We are grateful to the generosity of Helen Bass, Jane Rowlands, and Tracey Reese, Welsh Blood Service, Pontyclun and to Dasnayane Chanda-

nayingyong, Siriraj Hospital, Bangkok for providing the valuable reference cells studied in our exchanges. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <http://bioinformatics.nmdp.org/>.

Ter-533. The reported consensus type for this sample from a Caucasian donor is DRB1*01:03-DRB1*03:01-DRB3*01:08-DQA1*01:01-DQA1*05:01-DQB1*02:01-DQB1*05:01-DPA1*01:03-DPB1*02:01-DPB1*04:01/A*02:01-A*03:01-B*07:02-B*08:01-C*07:01-C*07:02. Likely haplotypes present in this cell are A*02:01-B*08:01-DRB1*03:01-DQB1*02:01 and A*03:01-B*07:02-DRB1*01:03-DQB1*05:01, with respective frequencies of 0.00919 and 0.00067, in Caucasians. The DRB1*03:01-DQB1*02:01 association in this cell was also observed in cell 1507-33405, the reference cell for DRB3*01:08. It is the second most common association observed in Caucasians, with HF=0.12872.

This sample was previously studied in the exchange as Ter 417 (2008), as astutely noted by Rao. In this present study, the rare DRB3*01:08 allele was reported in complete consensus by labs reporting at high resolution. DRB1*01:03 and DRB1*03:01 were each reported in complete consensus as the DRB1 types. The DQA1 and DQB1 types were reported as DQA1*01:01 (100%), DQA1*05:01 (100%), DQB1*02:01 (100%), and DQB1*05:01 (96%). A*02:01, A*03:01, B*07:02, B*08:01 (100%), C*07:01, and C*07:02 were all assigned in complete consensus as the class I types.

Ter-534. The consensus type for this sample from a Thai donor is DRB1*11:11-DRB1*12:01-DRB3*01:01-DRB3*02:02-DQA1*05:05-DQA1*05:09-DQB1*03:01-DPA1*02:01-DPA1*02:02-DPB1*02:02-DPB1*26:01/A*11:01-A*68:01-B*40:01-B*55:01-C*01:02-C*07:02.

One likely haplotype in this cell is A*11:01-B*40:01-DRB1*12:01-DQB1*03:01, observed in Asian populations, with HF=0.00199. The other likely haplotype present may then be A*68:01-B*55:01-DRB1*11:11-DQB1*03:01, observed in cell 1082, a reference cell for DRB1*11:11:01.

This cell is Ter-144, a reference cell for DRB1*11:11:01. It was previously typed in the exchange as Ter 144 (1994), Ter 196 (1997), and Ter 374 (2006). In this present retyping, DRB1*11:11 was assigned in complete consensus, with 7 labs assigning DRB1*11:11:01. DRB1*12:01 (100%) was reported as the second DRB1 type, with 6 labs reporting DRB1*12:01:01. Two different subtypes of DQA1*05 were reported to be present in this cell, DQA1*05:05 (90%) and DQA1*05:09 (62%). This is an improvement from the 2006 typing in which DQA1*05:05 was assigned by only 5 labs. Among the 5 labs assigning DQA1*05:05, 3 reported the presence of a second DQA1*05 subtype. The detection of that second DQA1*05 subtype, DQA1*05:09, still remained low in this present study, as 5 labs reported this sample as homozygous for DQA1*05:05 and several labs were unable to resolve DQA1*05:09 from DQA1*05:05 and/or DQA1*05:11. DQA1*05:09 differs from DQA1*05:05 in exon 1 by a single nucleotide substitution at codon 1 (GAA → AAA), which results in an amino acid change from glutamic acid to lysine. DQA1*05:11 differs from DQA1*05:09 in exon 4 by a single nucleotide substitution at codon 194 (GAG → GGG), resulting in an amino acid change from glutamic acid to glycine. DQB1*03:01 (100%) was reported as the sole DQB1 subtype, with 1 NGS lab assigning DQB1*03:01:01:01 homozygous and the second assigning DQB1*03:01:01:01, DQB1*03:01:01:03.

Table 1: Summary of the 267th B-cell Line Exchange

Ter-533

DNA Typing - class II		DNA Typing - class I															
30 labs High; 34 labs low-DRB1	%(n)	17 labs High; 23 labs Low-DRB3/4/5	%(n)	23 labs High; 24 labs Low-DQA1	%(n)	28 High Labs; 32 labs Low-DQB1	%(n)	12 High Labs; 12 labs Low-DPA1	%(n)	24 High Labs; 15 labs Low-DPB1	%(n)						
	DRB1*01:03		100(30)		DRB3*01:08		100(17)		DQA1*01:01:01		17(4)	DQB1*02:01:01	21(6)	DPA1*01:03:01:01	8 (1)	DPB1*02:01:02	25(6)
	DRB1*103		12(4)		DRB3*PRESENT		22(5)		DQA1*01:01:01G		4 (1)	DQB1*02:01	79(22)	DPA1*01:03:01	8 (1)	DPB1*02:01:02G	4 (1)
	DRB1*01		88(30)		DRB3*01		78(18)		DQA1*01:01P		4 (1)	DQB1*02	100(32)	DPA1*01:03	83(10)	DPB1*02:01	71(17)
									DQA1*01:01		74(17)			DPA1*01	100(12)	DPB1*02(DP201)	60(9)
									DQA1*01		100(24)					DPB1*02	40(6)
30 labs High; 34 labs low-DRB1	%(n)	23 labs High; 24 labs Low-DQA1	%(n)	28 High Labs; 32 labs Low-DQB1	%(n)	24 High Labs; 15 labs Low-DPB1	%(n)										
	DRB1*03:01:01:01		7 (2)		DQA1*05:01:01:02		9 (2)	DQB1*05:01:01:01	4 (1)	DPB1*04:01:01:01	8 (2)						
	DRB1*03:01:01		13(4)		DQA1*05:01:01		9 (2)	DQB1*05:01:01	17(5)	DPB1*04:01:01	17(4)						
	DRB1*03:01:01G		7 (2)		DQA1*05:01		82(19)	DQB1*05:01	75(21)	DPB1*04:01:01G	4 (1)						
	DRB1*03:01		73(22)		DQA1*05		100(24)	DQB1*05:07	4 (1)	DPB1*04:01	71(17)						
	DRB1*03(DR17)		3 (1)					DQB1*05	100(32)	DPB1*04(DP401)	67(10)						
	DRB1*03		97(33)							DPB1*04	33(5)						
15 labs High; 25 labs low- A	%(n)	16 labs High; 24 labs low- B	%(n)	16 labs High; 24 labs low- C	%(n)												
	A*02:01:01:01		13(2)		B*07:02:01	19(3)	C*07:01:01:01	6 (1)									
	A*02:01:01		7 (1)		B*07:02:01G	6 (1)	C*07:01:01	19(3)									
	A*02:01		80(12)		B*07:02	75(12)	C*07:01:01G	6 (1)									
	A*02		100(25)		B*07	100(24)	C*07:01	69(11)									
				C*07	100(24)												
15 labs High; 25 labs low- A	%(n)	16 labs High; 24 labs low- B	%(n)	16 labs High- C	%(n)												
	A*03:01:01:01		13(2)		B*08:01:01	19(3)	C*07:02:01:03	6 (1)									
	A*03:01:01		7 (1)		B*08:01	81(13)	C*07:02:01	19(3)									
	A*03:01		80(12)		B*08	96(23)	C*07:02:01G	6 (1)									
	A*03		100(25)		B*42	4 (1)	C*07:02	69(11)									

Table 2: Summary of the 267th B-cell Line Exchange

		Ter-534										
DNA Typing - class II	<u>29 labs High; 33 labs low-DRB1</u>	%(n)	<u>16 labs High; 22 labs Low-DRB3/4/5</u>	%(n)	<u>21 labs High; 23 labs Low-DQA1</u>	%(n)	<u>28 High Labs; 30 labs Low-DQB1</u>	%(n)	<u>12 High Labs; 12 labs Low-DPA1</u>	%(n)	<u>24 High Labs; 15 labs Low-DPB1</u>	%(n)
	DRB1*11:11:01	24(7)	DRB3*01:01:02	13(2)	DQA1*05:05:01:01	5 (1)	DQB1*03:01:01:01	7 (2)	DPA1*02:01:01	17(2)	DPB1*02:02	100(24)
	DRB1*11:11	76(22)	DRB3*01:01:02G	6 (1)	DQA1*05:05:01	14(3)	DQB1*03:01:01	14(4)	DPA1*02:01	83(10)	DPB1*02(DP202)	60(9)
	DRB1*11	100(33)	DRB3*01:01	81(13)	DQA1*05:01P	5 (1)	DQB1*03:01	79(22)	DPA1*02	100(12)	DPB1*02	40(6)
			DRB3*01	82(18)	DQA1*05:05	71(15)	DQB1*03(DQ7)	3 (1)				
			DRB3*PRESENT	18(4)	DQA1*05:01	5 (1)	DQB1*03	97(29)				
					DQA1*05	100(23)						
DNA Typing - class I	<u>15 labs High; 25 labs low- A</u>	%(n)	<u>16 labs High; 25 labs low- B</u>	%(n)	<u>15 labs High; 23 labs low- C</u>	%(n)	<u>15 High Labs-DQA1</u>	%(n)	<u>12 High Labs-DPA1</u>	%(n)	<u>24 High Labs; 15 labs Low-DPB1</u>	%(n)
	A*11:01:01:01	7 (1)	B*40:01:02	19(3)	DQA1*05:09	62(13)	DQB1*03:01:01:03	3.5(1)	DPA1*02:02:02	17(2)	DPB1*26:01:02	21(5)
	A*11:01:01	13(2)	B*40:01	81(13)	DQA1*05:05	24(5)	DQB1*03:01:01:01	3.5(1)	DPA1*02:02P	8 (1)	DPB1*26:01	79(19)
	A*11:01	80(12)	B*40(B60)	4 (1)	DQA1*05:09+	14(3)	DQB1*03:01:01	14(4)	DPA1*02:02	75(9)	DPB1*26	100(15)
	A*11	100(25)	B*40	96(24)			DQB1*03:01	79(22)				
							DQB1*03:01	3 (1)				
							DQB1*03(DQ7)	97(29)				
DNA Typing - class I	<u>15 labs High; 25 labs low- A</u>	%(n)	<u>15 labs High; 25 labs low- B</u>	%(n)	<u>15 labs High; 24 labs low- C</u>	%(n)	<u>15 High Labs-DQA1</u>	%(n)	<u>12 High Labs-DPA1</u>	%(n)	<u>24 High Labs; 15 labs Low-DPB1</u>	%(n)
	A*68:01:02:01	13(2)	B*55:01:01	20(3)	C*07:02:01:01	13(2)	DQB1*03:01:01:03	3.5(1)	DPA1*02:02:02	17(2)	DPB1*26:01:02	21(5)
	A*68:01:02	7 (1)	B*55:01	80(12)	C*07:02:01	7 (1)	DQB1*03:01:01:01	3.5(1)	DPA1*02:02P	8 (1)	DPB1*26:01	79(19)
	A*68:01	80(12)	B*55	100(25)	C*07:02:01G	7 (1)	DQB1*03:01:01	14(4)	DPA1*02:02	75(9)	DPB1*26	100(15)
	A*68	100(25)			C*07:02	73(11)	DQB1*03:01	79(22)				
					C*07:02:01G	7 (1)	DQB1*03(DQ7)	3 (1)				
					C*07:02	73(11)	DQB1*03	97(29)				
					C*07	100(24)						

Table 3a: Individual laboratory results for B-cell #533-Class II

Center	Investigator	Low resolution												METHOD	Other Alleles
		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
5488	Adams , Sharon			3*01										SSP SSO SBT	
5462	Arnold , Paula	*01	*03	3*01		*01	*05	*02	*05	*01	*01	*02	*04(DP401)	SSP SSO SBT	
774	Cecka , J. Michael	*01	*03	3*01		*01	*05	*02	*05	*01		*02(DP201)	*04(DP401)	SSP SSO	
9916	Charlton , Ronald K	*01	*03	3*PRESENT				*02	*05					SSP	DRB1*13
3224	Chen , Dong-Feng													SSP SBT	
8021	Clark , Brendan													SSO	
3632	Colombe , Beth W.	*01	*03	3*01		*01	*05	*02	*05	*01		*02	*04	SSP SSO	
5130	Costeas , Paul A.	*01	*03	3*01		*01	*05	*02	*05			*02	*04		
779	Daniel , Claude	*01	*03	3*01		*01	*05	*02	*05	*01		*02(DP201)	*04(DP401)		
5219	Daniel , Dolly	*01	*03					*02	*05					SSO	
8099	Danish , Adel	*01	*03			*01	*05	*02	*05					SSO	
1108	DeConinck , Martha	*01	*03	3*01	3*01	*01	*05	*02	*05	*01	*01			SSO	
87	Di Paola , Nicholas	*01	*03	3*01		*01	*05	*02	*05	*01	*01	*02(DP201)	*04(DP401)	RT-PCR	
5214	Eckels/CPMC ,	*103	*03 (DR17)	3*01		*01	*05	*02	*05	*01	*01	*02(DP201)	*04(DP401)	SSO	
747	Ferrari-Lacraz , Syl														
4079	Fort , Marylise	*01	*03					*02	*05					SSP SSO	
792	Gandhi , Manish	*103	*03	3*01		*01	*05	*02	*05	*01	*01	*02	*04	SSP SSO SBT	
8043	Gideoni , Osnat	*01	*03			*01	*05	*02	*05					SSP SSO	
8087	Guerra , Q.F.B. Elb	*01	*03			*01	*05	*02	*05					SSO	
810	Hamdi , Nuha													SSO	
1694	Hesse , Nicole	*01	*03	3*PRESENT				*02	*05						
2344	Hurley , Hartzman&													SSO NGS	
771	Israel , Shoshana	*01	*03					*02	*05					SSP SSO	
725	Lardy , N.M.	*01	*03	3*PRESENT		*01	*05	*02	*05					SSP SSO	
278	Lee , Jar-How	*01	*03	3*01	NT	*01	*05	*02	*05	*01	*01	*02	*04		
6649	Lim , Young Ae	*01	*03	3*PRESENT	5*PRESENT									SSP	
2400	Liu , Chang	*01	*03	3*01	NP	*01	*05	*02	*05			*02	*04	SSP SSO SBT	
731	Loewenthal , Ron	*01	*03			*01	*05	*02	*05					SSP SSO SBT	
206	McAlack , Robert	*01	*03	3*01		*01	*05	*02	*05	*01	*01	*02(DP201)	*04(DP401)	SSO	
8042	Muncher , Liora	*01	*03	NT	NT	NT	NT	*02	*05	NT	NT	NT	NT	SSO	
54	Pancoska , Carol	*103	*03	3*01		*01	*05	*02	*05	*01		*02(DP201)	*04(DP401)	SSO	
3966	Permpikul , Vejbaes														
8001	Rao , Prakash					*01	*05								
3519	Renac , Virginie	*01	*03					*02	*05			*02(DP201)	*04(DP401)	SSP NGS	
793	Rubocki , Ronald	*01	*03	3*01		*01	*05	*02	*05			*02(DP201)	*04(DP401)	SSP	
4251	Schiller , Jennifer	*103	*03	3*01		*01	*05	*02	*05	*01	*01	*02(DP201)	*04(DP401)	SSO NGS	
8068	Shanmugam , Hem	*01	*03	3*01				*02	*05					SSO	
8029	Tarigopula , Anil	*01	*03			*01	*05	*02	*05					SSO	

Table 3a: Individual laboratory results for B-cell #533-Class II

		Low resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5451	Tilanus , Marcel G.	*01	*03	3*01		*01	*05	*02	*05					SSO SBT	
5642	Varnavidou-Nicolaïd	*01	*03	3*PRESENT				*02	*05					SSP	
2847	Wakita , Atsushi	*01	*03											SSO	
8052	Yanina Marcos , Cir	*01	*03			*01	*05	*02	*05					SSO	

Table 3b: Individual laboratory results for B-cell #533-Class II

		Intermediate/High resolution												
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1	DPB1		METHOD	Other Alleles
5488	Adams , Sharon	*01:03	*03:01:01			*01:01	*05:01	*02:01:01	*05:01:01		*02:01:02	*04:01:01	SSP SSO SBT	
5462	Arnold , Paula	*01:03	*03:01	3*01:08		*01:01P	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SSO SBT RT-PCR	DQA1*01:04 DQA1*01:05 DQA1*01:12 DPA1*01:13
5133	Askar , Medhat	*01:03	*03:01:01	3*01:08		*01:01:01	*05:01:01	*02:01:01	*05:01:01	*01:03:01	*02:01:02	*04:01:01:01	NGS	
4492	Caillat-Zucman , So	*01:03	*03:01:01	3*01:08	3*01:01/ *01:08	*01:01:01	*05:01:01	*02:01:01	*05:01:01	*01:03	*02:01:02	*04:01:01	SSO NGS	DPA1*01:13
774	Cecka , J. Michael	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SSO	DQB1*02:09 DRB1*03:112 DQB1*02:14 DRB1*03:68N DRB1*03:83 DRB1*03:100 DRB1*03:104 DQB1*02:07 DQB1*02:08 DQB1*02:27
8070	Chang , Uckjin	*01:03	*03:01										SBT	
3224	Chen , Dong-Feng	*01:03	*03:01:01G	3*01:08		*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SBT	
8021	Clark , Brendan	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01				SSO	
3632	Colombe , Beth W.	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SSO	
5130	Costeas , Paul A.	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01		*02:01	*04:01		
779	Daniel , Claude	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01		
8086	Du , Keming	*01:03	*03:01			*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SSO SBT	
3135	Enczmann , J	*01:03	*03:01	3*01:08				*02:01	*05:01		*02:01:02	*04:01:01		
747	Ferrari-Lacraz , Sylv													
762	Fischer , Gottfried	*01:03	*03:01:01:01	3*01:08		*01:01:01	*05:01:01:02	*02:01:01	*05:01:01		*02:01:02	*04:01:01	SSO NGS	
4079	Fort , Marylise	*01:03	*03:01			*01:01	*05:01	*02:01	*05:01		*02:01	*04:01	SSP SSO	DPB1*444:01 DQA1*01:04 DPB1*418:01 DPB1*426:01 DPB1*428:01 DPB1*434:01 DPB1*433:01 DQA1*01:05 DQA1*01:12 DQB1*02:07 DQB1*02:14 DQB1*02:27 DQB1*05:27
792	Gandhi , Manish	*01:03	*03:01			*01:01	*05:01	*02:01	*05:01		*02:01	*04:01	SSP SSO SBT	
810	Hamdi , Nuha	*01:03	*03:01	3*01:08	3*01:08	*01:01	*05:01	*02:01	*05:01				SSO	

Table 3b: Individual laboratory results for B-cell #533-Class II

		Intermediate/High resolution												
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1	DPB1		METHOD	Other Alleles
2344	Hurley , Hartzman&	*01:03	*03:01:01:01			*01:01:01	*05:01:01:02	*02:01:01	*05:01:01:01	*01:03:01:01	*02:01:02	*04:01:01:01	SSO NGS	DPA1*01:03:01:02 DPA1*01:03:01:03 DPA1*01:03:01:04 DPA1*01:03:01:05 DPA1*01:03:01:02 DPA1*01:03:01:03 DPA1*01:03:01:04 DQB1*05:01:01:02 DQB1*05:01:01:03 DPA1*01:03:01:05 DPB1*04:01:01:02
771	Israel , Shoshana	*01:03	*03:01					*02:01	*05:01				SSP SSO	
4337	Kim , Tai-Gyu	*01:03	*03:01					*02:01	*05:01		*02:01	*04:01	SBT	
278	Lee , Jar-How	*01:03	*03:01	3*01:08	NT	*01:01	*05:01	*02:01	*05:07	*01:03	*02:01	*04:01		
2400	Liu , Chang	*01:03	*03:01			*01:01	*05:01	*02:01	*05:01		*02:01:02G	*04:01:01G	SSP SSO SBT	
731	Loewenthal , Ron	*01:03	*03:01:01G					*02:01:01	*05:01:01				SSP SSO SBT	
3966	Permpikul , Vejbaes													
8001	Rao , Prakash	*01:03	*03:01	3*01:08				*02:01	*05:01		*02:01	*04:01		
3753	Reed , Elaine F.	*01:03	*03:01	NP	3*01:08	*01:01:01G	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SSO SBT	DQB1*05:44 DPB1*237:01 DPB1*261:01 DPB1*359:01 DPB1*262:01 DPB1*281:01 DPB1*323:01 DPB1*367:01 DPB1*381:01 DPB1*444:01 DPB1*426:01 DPB1*434:01 DPB1*455:01N+, DPA1*01:13, DQB1*02:47
3519	Renac , Virginie	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01		*02:01	*04:01	SSP NGS	
793	Rubocki , Ronald					*01:01	*05:01				*02:01	*04:01	SSP	
4251	Schiller , Jennifer	*01:03	*03:01			*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSO NGS	
5451	Tilanus , Marcel G.J.	*01:03	*03:01:01	3*01:08									SSO SBT	
5642	Varnavidou-Nicolaïd	*01:03	*03:01					*02:01	*05:01				SSP	DRB1*01:39N
3511	Zeevi , Adriana	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01		*02:01	*04:01	SSP SSO	

Table 4: Individual laboratory results for B-cell #533-Class II									
Serology									
CTR	DIRNAME	DR103	DR18	DR52		DQ2	DQ1	OTH1	OTH2
910	Hahn,Amy B.	+	+	+		+	+	DR17	

Table 5: Individual laboratory results for B-cell #533-Class I

Center	Investigator	Low resolution						High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5488	Adams , Sharon	*02	*03							*07:02	*08:01	*07:01:01	*07:02:01	SSP SSO SBT	B*07:61 B*07:161N
5462	Arnold , Paula	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*02:01:01:01	*03:01:01:01	*07:02:01	*08:01:01	*07:01:01	*07:02:01	NGS	
4492	Caillat-Zucman , Sc							*02:01:01	*03:01:01	*07:02:01	*08:01:01	*07:01:01	*07:02:01	SSO NGS	
774	Cecka , J. Michael	*02	*03	*07	*08	*07								SSP SSO	
9916	Charlton , Ronald K	*02	*03	*07	*08	*07								SSP	
3224	Chen , Dong-Feng							*02:01	*03:01	*07:02:01G	*08:01	*07:01:01G	*07:02:01G	SSP SBT	
8021	Clark , Brendan	*02	*03	*07	*08	*07								SSO	
5130	Costeas , Paul A.	*02	*03	*07	*08	*07	*07	*02:01	*03:01	*07:02	*08:01	*07:01	*07:02		A*03:16 A*03:61
779	Daniel , Claude	*02	*03	*07	*08	*07	*07								
5219	Daniel , Dolly	*02	*03	*07	*08	*07	*07							SSO	
8099	Danish , Adel	*02	*03	*07	*08	*07	*07							SSO	
1108	DeConinck , Martha	*02	*03	*07	*08	*07	*07							SSO	
87	Di Paola , Nicholas	*02	*03	*07	*08	*07	*07							RT-PCR	
8086	Du , Keming							*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSP SSO SBT	
5214	Eckels/CPMC ,	*02	*03	*07	*08	*07								SSO	
3135	Enczmann , J							*02:01	*03:01	*07:02	*08:01	*07:01	*07:02		C*07:06 C*07:18 A*02:01L
792	Gandhi , Manish	*02	*03	*07	*08	*07	*07	*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSP SSO SBT	
8087	Guerra , Q.F.B. Elb	*02	*03	*07	*42	*07	*07							SSO	
810	Hamdi , Nuha							*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSO	
1694	Hesse , Nicole	*02	*03	*07	*08	*07									
2344	Hurley , Hartzman&							*02:01:01:01	*03:01:01:01	*07:02:01	*08:01:01	*07:01:01:01	*07:02:01:03	SSO NGS	
4337	Kim , Tai-Gyu							*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SBT	
278	Lee , Jar-How	*02	*03	*07	*08	*07	*07	*02:01	*03:01	*07:02	*08:01	*07:01	*07:02		
2400	Liu , Chang	*02	*03	*07	*08	*07	*07	*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSP SSO SBT	
206	McAlack , Robert	*02	*03	*07	*08	*07	*07							SSO	
8042	Muncher , Liora	*02	*03	*07	*08	*07	*07							SSO	
54	Pancoska , Carol	*02	*03	*07	*08	*07								SSO	
3753	Reed , Elaine F.							*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSP SSO SBT	A*02:24 A*02:34 A*02:35 A*02:195 A*03:05 A*03:07 A*03:95 A*03:176 B*07:61 B*08:50 B*08:53 B*08:94 C*07:18 C*07:343 C*07:27+
3519	Renac , Virginie	*02	*03	*07	*08	*07		*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSP NGS	
4251	Schiller , Jennifer	*02	*03	*07	*08	*07	*07	*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSO NGS	
8068	Shanmugam , Hem	*02	*03	*07	*08	*07								SSO	
8029	Tarigopula , Anil	*02	*03	*07	*08	*07	*07							SSO	
2847	Wakita , Atsushi	*02	*03	*07	*08	*07	*07							SSO	
8052	Yanina Marcos , Cir	*02	*03	*07	*08	*07	*07							SSO	

Table 6a: Individual laboratory results for B-cell #534-Class II

Center	Investigator	Low resolution												METHOD	Other Alleles
		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
5488	Adams , Sharon			3*01	3*02									SSP SSO SBT	
5462	Arnold , Paula	*11	*12	3*01	3*02	*05		*03		*02	*02	*02	*26	SSP SSO SBT	
774	Cecka , J. Michael	*11	*12	3*01	3*02	*05		*03		*02	*02	*02(DP202)	*26	RT-PCR	
9916	Charlton , Ronald K	*11	*12	3*PRESENT					*03					SSP	A*66
3224	Chen , Dong-Feng													SSP SBT	
8021	Clark , Brendan													SSO	
3632	Colombe , Beth W.	*11	*12	3*01	3*02	*05	*05	*03		*02	*02	*02	*26	SSP SSO	
5130	Costeas , Paul A.	*11	*12	3*01	3*02	*05	*05	*03	*03			*02	*26		
779	Daniel , Claude	*11	*12	3*01	3*02	*05	*05	*03		*02	*02	*02(DP202)	*26		
5219	Daniel , Dolly	*11	*12					*03	*03					SSO	
8099	Danish , Adel	*11	*12			*05	*05	*03	*03					SSO	
1108	DeConinck , Martha	*11	*12	3*01	3*02	*05		*03		*02				SSO	
87	Di Paola , Nicholas	*11	*12	3*01	3*02	*05	*05	*03	*03	*02	*02	*02(DP202)	*26	RT-PCR	
5214	Eckels/CPMC ,	*11	*12	3*01	3*02	*05		*03		*02	*02	*02(DP202)	*26	SSO	
747	Ferrari-Lacruz , Syl														
4079	Fort , Marylise	*11	*12					*03						SSP SSO	
792	Gandhi , Manish	*11	*12	3*01	3*02	*05		*03		*02	*02	*02	*26	SSP SSO SBT	
8043	Gideoni , Osnat	*11	*12			*05		*03						SSP SSO	
8087	Guerra , Q.F.B. Elb	*11	*12			*05	*05	*03	*03					SSO	
810	Hamdi , Nuha													SSO	
1694	Hesse , Nicole	*11	*12	3*PRESENT				*03							
2344	Hurley , Hartzman&													SSO NGS	
771	Israel , Shoshana	*11	*12					*03						SSP SSO	
725	Lardy , N.M.	NT												SSP SSO	
278	Lee , Jar-How	*11	*12	3*01	3*02	*05	*05	*03	*03	*02	*02	*02	*26		
6649	Lim , Young Ae	*11	*12	3*PRESENT										SSP	
2400	Liu , Chang	*11	*12	3*01	3*02	*05		*03				*02	*26	SSP SSO SBT	
731	Loewenthal , Ron	*11	*12			*05		*03						SSP SSO SBT	
206	McAlack , Robert	*11	*12	3*01	3*02	*05		*03	*03	*02	*02	*02(DP202)	*26	SSO	
8042	Muncher , Liora	*11	*12	NT	NT	NT	NT	*03	*03	NT	NT	NT	NT	SSO	
54	Pancoska , Carol	*11	*12	3*01	3*02	*05		*03		*02		*02(DP202)	*26	SSO	
3966	Permpikul , Vejbaes														
8001	Rao , Prakash					*05									
3519	Renac , Virginie	*11	*12					*03				*02(DP202)	*26	SSP NGS	
793	Rubocki , Ronald	*11	*12	3*01	3*02	*05		*03				*02(DP202)	*26	SSP	
4251	Schiller , Jennifer	*11	*12	3*01	3*02	*05	*05	*03	*03	*02	*02	*02(DP202)	*26	SSO NGS	
8068	Shanmugam , Hem	*11	*12	3*01	3*02			*03						SSO	
8029	Tarigopula , Anil	*11	*12			*05	*05	*03	*03					SSO	
5451	Tilanus , Marcel G..	*11	*12	3*01	3*02	*05		*03						SSO SBT	
5642	Varnavidou-Nicolaïd	*11	*12	3*PRESENT				*03						SSP	
2847	Wakita , Atsushi	*11	*12											SSO	
8052	Yanina Marcos , Cir	*11	*12			*05	*05	*03	*03					SSO	

Table 6b: Individual laboratory results for B-cell #534-Class II

		Intermediate/High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharon	*11:11:01	*12:01:01			*05:05	*05:09	*03:01:01				*02:02	*26:01:02	SSP SSO SBT	DRB1*12:10
5462	Arnold , Paula	*11:11	*12:01P	3*01:01	3*02:02	*05:01P	*05:09/05/11	*03:01		*02:01	*02:02P	*02:02	*26:01	SSP SSO SBT RT-PCR	DRB3*01:17 DRB3*01:19 DRB1*12:10 DRB3*01:16 DRB3*02:28 DRB3*02:29N DRB3*02:33 DPA1*02:06
5133	Askar , Medhat	*11:11:01	*12:01:01	3*01:01:02	3*02:02:01	*05:05:01	*05:09	*03:01:01		*02:01:01	*02:02:02	*02:02	*26:01:02	NGS	
4492	Caillat-Zucman , So	*11:11:01	*12:01:01	3*01:01	3*02:02	*05:05:01	*05:09	*03:01:01	*03:01:01	*02:01	*02:02	*02:02	*26:01:02	SSO NGS	DPA1*02:06
774	Cecka , J. Michael	*11:11	*12:01	3*01:01	3*02:02	*05:05	*05:09	*03:01		*02:01	*02:02	*02:02	*26:01	SSP SSO	DRB3*01:16 DRB3*02:28 DRB3*02:29N
8070	Chang , Uckjin	*11:11	*12:01											SBT	
3224	Chen , Dong-Feng	*11:11	*12:01:01G	3*01:01:02G	3*02:02:01G	*05:05	*05:09	*03:01		*02:01	*02:02	*02:02	*26:01	SSP SBT	
8021	Clark , Brendan	*11:11	*12:01	3*01:01	3*02:02	*05:05		*03:01						SSO	
3632	Colombe , Beth W.	*11:11	*12:01	3*01:01	3*02:02	*05:05	*05:09	*03:01		*02:01	*02:02	*02:02	*26:01	SSP SSO	DQA1*05:09
5130	Costeas , Paul A.	*11:11	*12:01	3*01:01	3*02:02	*05:05	*05:05	*03:01	*03:01			*02:02	*26:01		DRB3*01:11 DQB1*03:27 DQB1*03:27 DRB3*02:13
779	Daniel , Claude							*03:01		*02:01	*02:02	*02:02	*26:01		
8086	Du , Keming	*11:11	*12:01			*05:05	*05:09	*03:01	*03:01	*02:01	*02:02	*02:02	*26:01	SSP SSO SBT	
3135	Enczmann , J	*11:11	*12:01	3*01:01	3*02:02			*03:01	*03:01			*02:02	*26:01		DRB1*12:10
747	Ferrari-Lacraz , Sylv														
762	Fischer , Gottfried	*11:11:01	*12:01:01	3*01:01:02	3*02:02:01	*05:05:01	*05:09	*03:01:01:01	*03:01:01:03			*02:02	*26:01:02	SSO NGS	DRB1*12:10
4079	Fort , Marylise	*11:11	*12:01			*05:05	*05:09/11	*03:01				*02:02	*26:01	SSP SSO	DQB1*03:27 DQB1*03:44 DQB1*03:10 DRB1*12:10
792	Gandhi , Manish	*11:11	*12:01			*05:05		*03:01				*02:02	*26:01	SSP SSO SBT	
810	Hamdi , Nuha	*11:11	*12:01	3*01:01	3*02:02	*05:05	*05:05	*03:01	*03:01					SSO	
2344	Hurley , Hartzman&	*11:11:01	*12:01:01			*05:05:01:01	*05:09	*03:01:01:01	*03:01:01:01	*02:01:01	*02:02:02	*02:02	*26:01:02	SSO NGS	DQB1*03:01:01:03 DQB1*03:01:01:02 DQB1*03:01:01:03 DQB1*03:01:01:02 DQA1*05:05:01:02 DQA1*05:05:01:03
771	Israel , Shoshana	*11:11	*12:01					*03:01						SSP SSO	

Table 6b: Individual laboratory results for B-cell #534-Class II

		Intermediate/High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
4337	Kim , Tai-Gyu	*11:11	*12:01					*03:01	*03:01			*02:02	*26:01	SBT	
278	Lee , Jar-How	*11:11	*12:01	3*01:01	3*02:02	*05:01	*05:09	*03:01	*03:01	*02:01	*02:02	*02:02	*26:01		
2400	Liu , Chang	*11:11	*12:01			*05:05	*05:09	*03:01				*02:02	*26:01	SSP SSO SBT	DRB1*12:10
731	Loewenthal , Ron	*11:11:01	*12:01:01G					*03:01:01						SSP SSO SBT	
3966	Permpikul , Vejbaes														
8001	Rao , Prakash	*11:11	*12:01	3*01:01	3*02:02			*03:01				*02:02	*26:01		
3753	Reed , Elaine F.	*11:11	*12:01	3*01:01	3*02:02:01G	*05:05	*05:09/05	*03:01	*03:01	*02:01	*02:02	*02:02	*26:01	SSP SSO SBT	DRB3*01:04 DQA1*05:11 DRB1*12:10 DRB3*01:16
3519	Renac , Virginie	*11:11	*12:01	3*01:01	3*02:02	*05:05	*05:09	*03:01				*02:02	*26:01	SSP NGS	DRB1*12:10
793	Rubocki , Ronald											*02:02	*26:01	SSP	
4251	Schiller , Jennifer	*11:11	*12:01:01G			*05:05	*05:09	*03:01	*03:01	*02:01	*02:02	*02:02	*26:01	SSO NGS	
5451	Tilanus , Marcel G.J.	*11:11:01	*12:01:01											SSO SBT	
5642	Varnavidou-Nicolaic	*11:11	*12:01					*03:01						SSP	
3511	Zeevi , Adriana	*11:11	*12:01	3*01:01	3*02:02	*05:05		*03:01				*02:02	*26:01	SSP SSO	

Table 7: Individual laboratory results for B-cell #534-Class II									
Serology									
CTR	DIRNAME	DR5	DR3	DR52		DQ3	DQ7	OTH1	OTH2
910	Hahn,Amy B.	DR11	DR17	+		+	+	DR12,DR18	

Table 8: Individual laboratory results for B-cell #534-Class I

Center	Investigator	Low resolution						High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5488	Adams , Sharon	*11	*68	*40	*55	*01	*07							SSP SSO SBT	
5462	Arnold , Paula	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*11:01:01:01	*68:01:02:01	*40:01:02	*55:01:01	*01:02:01	*07:02:01:01	NGS	
4492	Caillat-Zucman , S							*11:01:01	*68:01:02	*40:01:02	*55:01:01	*01:02:01	*07:02:01	SSO NGS	
774	Cecka , J. Michael	*11	*68	*40	*55	*01	*07							SSP SSO	
9916	Charlton , Ronald K	*11	*68	*40	*55	*01	*07							SSP	A*66
3224	Chen , Dong-Feng							*11:01	*68:01	*40:01	*55:01	*01:02:01G	*07:02:01G	SSP SBT	
8021	Clark , Brendan	*11	*68	*40	*55	*01	*07							SSO	
5130	Costeas , Paul A.	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02		C*07:72 A*11:37 C*01:38 C*07:127 A*11:05 B*40:36 B*40:46 C*01:06 A*11:80 B*40:69
779	Daniel , Claude	*11	*68	*40	*55	*01	*07			*40:01					
5219	Daniel , Dolly	*11	*68	*40	*55	*01	*07							SSO	
8099	Danish , Adel	*11	*68	*40	*55									SSO	
1108	DeConinck , Martha	*11	*68	*40	*55	*01	*07							SSO	
87	Di Paola , Nicholas	*11	*68	*40	*55	*01	*07							RT-PCR	
8086	Du , Keming							*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSP SSO SBT	
5214	Eckels/CPMC ,	*11	*68	*40 (B60)	*55	*01	*07							SSO	
3135	Enczmann , J							*11:01	*68:01	*40:01	*55:01	*01:02	*07:02		
792	Gandhi , Manish	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSP SSO SBT	
8087	Guerra , Q.F.B. Elb	*11	*68	*40	*55		*07							SSO	
810	Hamdi , Nuha							*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSO	
1694	Hesse , Nicole	*11	*68	*40	*55	*01	*07								
2344	Hurley , Hartzman							*11:01:01	*68:01:02:01	*40:01:02	*55:01:01	*01:02:01	*07:02:01:01	SSO NGS	
4337	Kim , Tai-Gyu							*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SBT	
278	Lee , Jar-How	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02		
2400	Liu , Chang	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSP SSO SBT	
206	McAlack , Robert	*11	*68	*40	*55	*01	*07							SSO	
8042	Muncher , Liora	*11	*68	*40	*55	*01	*07							SSO	
54	Pancoska , Carol	*11	*68	*40	*55	*01	*07							SSO	
3753	Reed , Elaine F.							*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSP SSO SBT	A*11:118 A*11:119 A*68:11N A*68:12 A*68:91 B*40:25 B*40:183 B*55:24 B*55:28 C*01:17 C*01:54 C*01:58 C*07:39 C*07:349+
3519	Renac , Virginie	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSP NGS	
4251	Schiller , Jennifer	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSO NGS	

Table 8: Individual laboratory results for B-cell #534-Class I

		Low resolution						High resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
8068	Shanmugam , Hen	*11	*68	*40	*55	*01	*07							SSO	
8029	Tarigopula , Anil	*11	*68	*40	*55	*01	*07							SSO	
2847	Wakita , Atsushi	*11	*68	*40	*55	*01	*07							SSO	
8052	Yanina Marcos , Ci	*11	*68	*40	*55	*01	*07							SSO	

CELL EXCHANGE #396

The results for Cell Exchange #396 are summarized in Table 9 and Table 10. Molecular typing results for individual laboratories are listed in Tables 11

-14 for each sample and individual serological results for each sample are listed in Table 15.

Cell 1581. The reported type for this sample from a Chinese donor is A*02:06(A2)-A*11:01(A11)-B*35:05(B35)-B*46:01(B46)-C*01:02-(Cw1)-C*04:01(Cw4). Likely class I associations present in this cell are A*02:06-B*35:05-C*04:01 and A*11:01-B*46:01-C*01:02, observed in Asian populations, with respective frequencies of 0.00028 and 0.00568. A*02:06 was reported in complete consensus, with NGS assigning A*02:06:01:01. A*11:01 was also reported in complete consensus, with 4 labs assigning A*11:01:01. B*35:05 (100%) and B*46:01 (100%) were reported as the B-locus types, with B*35:05:01 and B*46:01:01 each assigned by 5 labs. The C-locus types were reported as C*01:02 (100%) and C*04:01 (100%), with 4 labs assigning C*01:02:01 and C*04:01:01. By serology, A2 (100%), A11 (100%), B35 (100%), B46 (94%), Cw1 (44%), and Cw4 (44%) were all well assigned.

Cell 1582. The reported type for this sample from a Hispanic donor is A*02:01(A2)-A*32:01(A32)-B*27:02(B27)-B*52:01(B52)-C*02:02(Cw2)-C*03:03(Cw3). The likely class I associations present in this cell are A*02:01-B*52:01-C*03:03 and A*32:01-B*27:02-C*02:02, with respective frequencies of 0.00520 and 0.00050, in Hispanics. A*02:01 and A*32:01 were each reported in complete consensus, with 5 labs assigning A*02:01:01 and A*32:01:01. B*27:02 and B*52:01 were also reported in complete consensus, with 5 labs reporting B*27:02:01 and B*52:01:02. C*02:02 (100%) and C*03:03 (100%) were reported as the C-locus types. The antigens encoded by these alleles were well detected by serology and reported as A2 (100%), A32 (100%), B27(100%), B52 (9%), Cw2(47%), and Cw3 (47%).

Cell 1583. The reported type for this sample from a donor of mixed heritage is A*02:01(A2)-A*32:01(A32)-B*27:05(B27)-B*44:02(B44)-C*02:02(Cw2)-C*05:01(Cw5). Likely class I associations in this cell are A*02:01-B*27:05-C*02:02 and A*32:01-B*44:02-C*05:01, observed across all populations, most commonly in Caucasians, with respective frequencies of 0.00706 and 0.00481. The A-locus types in this samples were reported as A*02:01 (100%) and A*32:01 (100%), with 5 labs reporting A*02:01:01 and A*32:01:01. B*27:05 and B*44:02 were each reported in complete consensus, with 4 labs assigning B*27:05:02 and B*44:02:01. C*02:02 (93%) and C*05:01 (100%) were the reported C-locus types. A2 (100%), A32 (100%), B27 (100%), B44 (100%), Cw2 (44%), and Cw5 (39%) were assigned by serology.

Cell 1584. The reported type for this sample from a donor of mixed Hispanic and Caucasian ancestry is A*02:01(A2)-A*03:02(A3)-B*27:05(B27)-B*51:02(B51)-C*01:02(Cw1)-C*15:02. Previous exchange data from family studies reveal the haplotypes in this cell to be A*02:01-B*27:05-C*01:02 and A*03:02-B*51:02-C*15:02. This sample was first typed back in 1987 as cell 538. Since then, it has been typed numerous times in the exchange as cell 996 (1999) and as extracts 38 (1998), 148 (2000), and 572 (2013). In this present retyping, A*02:01 and A*03:02 were each assigned in complete consensus, with 5 labs assigning A*02:01:01 and 6 labs assigning A*03:02:01. The B-locus types were reported as B*27:05 (93%) and B*51:02 (93%). C*01:02 (100%) and C*15:02 (100%) were the reported C-locus types. By serology, A2 (100%), A3 (100%), B27 (100%), B51 (94%), and Cw1 (50%) were all reported with good agreement.

Table 9. Summary of the 396th Cell Exchange (Cell #1581-1584)

DNA typing

Cell 1581	
24 low/16 high labs - A	%(n)
A*02:06:01:01	19(3)
A*02:06:01	6 (1)
A*02:06	75(12)
A*02	100(24)
24 low/15 high labs - A	%(n)
A*11:01:01	27(4)
A*11:01	73(11)
A*11	96(23)
A*03	4 (1)
23 low/15 high labs - B	%(n)
B*35:05:01	33(5)
B*35:05	67(10)
B*35	100(23)
23 low/15 high labs - B	%(n)
B*46:01:01	33(5)
B*46:01	67(10)
B*46	100(23)
22 low/15 high Labs - C	%(n)
C*01:02:01	27(4)
C*01:02:01G	6 (1)
C*01:02	67(10)
C*01	100(22)
22 low/15 high Labs - C	%(n)
C*04:01:01:01	13(2)
C*04:01:01	13(2)
C*04:01P	7 (1)
C*04:01	67(10)
C*04	100(22)

Cell 1582	
24 low/15 high labs - A	%(n)
A*02:01:01:01	20(3)
A*02:01:01	13(2)
A*02:01:01G	7 (1)
A*02:01	60(9)
A*02	100(24)
24 low/15 high labs - A	%(n)
A*32:01:01	33(5)
A*32:01	67(10)
A*32	100(24)
24 low/16 high labs - B	%(n)
B*27:02:01	31(5)
B*27:02	69(11)
B*27	100(24)
24 low/16 high labs - B	%(n)
B*52:01:02	31(5)
B*52:01	69(11)
B*52	92(22)
B*51	8 (2)
23 low/15 high Labs - C	%(n)
C*02:02:02:01	7 (1)
C*02:02:02	20(3)
C*02:02	73(11)
C*02	100(23)
23 low/16 high Labs - C	%(n)
C*03:03:01	31(5)
C*03:03:01G	6 (1)
C*03:03	63(10)
C*03(Cw9)	9 (2)
C*03	87(20)
C*15	4 (1)

Cell 1583	
23 low/15 high labs - A	%(n)
A*02:01:01:01	20(3)
A*02:01:01	13(2)
A*02:01:01G	7 (1)
A*02:01	60(9)
A*02	100(23)
23 low/15 high labs - A	%(n)
A*32:01:01	33(5)
A*32:01	67(10)
A*32	96(22)
A*03	4 (1)
23 low/15 high labs - B	%(n)
B*27:05:02	26(4)
B*27:05:02G	7 (1)
B*27:05	67(10)
B*27	100(23)
23 low/15 high labs - B	%(n)
B*44:02:01:01	20(3)
B*44:02:01	7 (1)
B*44:02:01G	7 (1)
B*44:02	66(10)
B*44	22(96)
B*52	4 (1)
22 low/15 high Labs - C	%(n)
C*02:02:02:01	13(2)
C*02:02	80(12)
C*02:10	7 (1)
C*02	100(22)
22 low/15 high Labs - C	%(n)
C*05:01:01:02	13(2)
C*05:01	87(13)
C*05	95(21)
C*03	5 (1)

Cell 1584	
23 low/14 high labs - A	%(n)
A*02:01:01:01	21(3)
A*02:01:01	14(2)
A*02:01:01G	7 (1)
A*02:01	57(8)
A*02	100(23)
23 low/14 high labs - A	%(n)
A*03:02:01	43(6)
A*03:02	57(8)
A*03	96(22)
A*68	4 (1)
23 low/14 high labs - B	%(n)
B*27:05:02	29(4)
B*27:05:02G	14(2)
B*27:05	50(7)
B*27:03	7 (1)
B*27	100(23)
23 low/14 high labs - B	%(n)
B*51:02:01:01	14(2)
B*51:01:01:01	7 (1)
B*51:02:01	7 (1)
B*51:02:01G	7 (1)
B*51:02P	7 (1)
B*51:02	57(8)
B*51	96(22)
B*44	4 (1)
22 low/14 high labs - C	%(n)
C*01:02:01	29(4)
C*01:02:01G	7 (1)
C*01:02	64(9)
C*01	95(21)
C*02	5 (1)
22 low/14 high labs - C	%(n)
C*15:02:01	29(4)
C*15:02:01G	7 (1)
C*15:02	64(9)
C*15	95(21)
C*05	5 (1)

Table 10. Summary of the 396th Cell Exchange (Cell #1581 - 1584)

Serological typing

(Chinese) Cell 1581 (18 Samples Typed)	
A2	100.0%
	[100.0%]
A11	94.4%
A11.1	5.6%
	[100.0%]
B35	100.0%
B46	94.4%
Cw1	44.4%
Cw4	44.4%
	[44.4%]
Bw6	72.2%
Others Found	
B70	5.6%
Cw3	5.6%
B75	5.6%

(Hispanic) Cell 1582 (19 Samples Typed)	
A2	100.0%
	[100.0%]
A32	100.0%
	[100.0%]
B27	100.0%
	[100.0%]
B52	94.7%
	[94.7%]
Cw2	47.4%
Cw9	5.3%
Cw3	42.1%
	[47.4%]
Bw4	68.4%
Others Found	
B5	10.5%
Bw6	10.5%

(Mixed) Cell 1583 (18 Samples Typed)	
A2	100.0%
	[100.0%]
A32	100.0%
	[100.0%]
B27	100.0%
	[100.0%]
B44	100.0%
	[100.0%]
Cw2	44.4%
Cw5	38.9%
	[38.9%]
Bw4	66.7%
Others Found	
B38	5.6%

(Mixed) Cell 1584 (18 Samples Typed)	
A2	100.0%
	[100.0%]
A3	100.0%
B27	100.0%
	[100.0%]
B51	94.4%
B5	5.6%
	[100.0%]
Cw1	50.0%
Bw4	66.7%
Others Found	
Cw5	5.6%
B38	5.6%

Table 11. Individual laboratory results for Cell #1581

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*02	*11	*35	*46	*01	*04	*02:06	*11:01	*35:05	*46:01	*01:02	*04:01	SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*02:06:01:01	*11:01:01	*35:05:01	*46:01:01	*01:02:01	*04:01:01	NGS	
4492	Caillat-Zucman , So	*02	*11	*35	*46	*01	*04							SSP	
774	Cecka , J. Michael	*02	*11	*35	*46	*01	*04	*02:06						SSP SSO	A*02:278 A*02:290 A*02:328 A*02:330 A*02:333 A*02:428 A*02:471 A*02:472 A*02:476N A*02:493 A*02:506N
8070	Chang , Uckjin							*02:06	*11:01	*35:05	*46:01	*01:02	*04:01	SBT	
798	Claas , F.H.J.							*02:06:01	*11:01:01	*35:05:01	*46:01:01	*01:02:01	*04:01:01	SBT	
3632	Colombe , Beth W.	*02	*11	*35	*46	*01	*04	*02:06	*11:01	*35:05	*46:01	*01:02	*04:01	SSP SSO	
779	Daniel , Claude	*02	*11	*35	*46	*01	*04							SSP SSO	
8099	Danish , Adel	*02	*03											SSO	
3766	Dunckley , Heather	*02	*11	*35	*46	*01	*04							SSO	
5214	Eckels/CPMC ,	*02	*11	*35	*46	*01	*04							SSO	
762	Fischer , Gottfried							*02:06:01:01	*11:01:01	*35:05:01	*46:01:01	*01:02:01	*04:01:01:01	SSO SBT NGS	
4079	Fort , Marylise	*02	*11	*35	*46	*01	*04	*02:06	*11:01	*35:05	*46:01	*01:02	*04:01	SSP SSO	A*11:126
8043	Gideoni , Osnat	*02	*11	*35	*46	*01	*04							SSP SSO	
3545	Goldstein , Steven	*02	*11	*35	*46	*01	*04	*02:06	*11:01	*35:05	*46:01	*01:02	*04:01	SSO SBT	C*01:85 C*04:226
810	Hamdi , Nuha							*02:06	*11:01	*35:05	*46:01	*01:02	*04:01	SSO	
771	Israel , Shoshana	*02	*11	*35	*46	*01	*04	*02:06	*11:01	*35:05	*46:01	*01:02	*04:01	SSO SBT	
725	Lardy , N.M.	*02	*11	*35	*46	*01	*04							SSP SSO	
745	Latham , Katy							*02:06:01:01	*11:01:01	*35:05:01	*46:01:01	*01:02:01	*04:01:01:01	SSP SBT NGS	
278	Lee , Jar-How	*02	*11	*35	*46	*01	*04	*02:06	*11:01	*35:05	*46:01	*01:02	*04:01		
6649	Lim , Young Ae	*02	*11	*35	*46									SSP	
54	Pancoska , Carol	*02	*11	*35	*46	*01	*04								
8001	Rao , Prakash	*02	*11	*35	*46	*01	*04								
3625	Rees , Tracey	*02	*11	*35	*46	*01	*04	*02:06	*11:01	*35:05	*46:01	*01:02	*04:01		
793	Rubocki , Ronald	*02	*11	*35	*46	*01	*04							SSP	
4251	Schiller , Jennifer	*02	*11	*35	*46	*01	*04	*02:06	*11:01	*35:05	*46:01	*01:02:01G	*04:01P	SSO SBT	
3808	Thornton , Alycia	*02	*11	*35	*46	*01	*04							SSP	
5642	Varnavidou-Nicolaic	*02	*11	*35	*46	*01	*04							SSP	
3186	Watson , Narelle	*02	*11	*35	*46	*01	*04							SSO	
16	Zhang , Aiwen	*02	*11	*35	*46	*01	*04	*02:06	*11:01	*35:05:01	*46:01:01	*01:02	*04:01	SSP SSO SBT	B*46:12 C*04:29 C*04:166 A*11:119:01 B*35:68:02 C*01:14 C*01:17 A*02:137 C*01:64 C*04:33 C*01:58 C*04:10

Table 12. Individual laboratory results for Cell #1582

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*02	*32	*27	*52	*02	*03	*02:01	*32:01	*27:02	*52:01	*02:02	*03:03	SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*02:01:01:01	*32:01:01	*27:02:01	*52:01:02	*02:02:02	*03:03:01	NGS	
4492	Caillat-Zucman , So	*02	*32	*27	*52	*02	*03							SSP	
774	Cecka , J. Michael	*02	*32	*27	*52	*02	*03			*27:02	*52:01			SSP SSO	B*27:57 B*52:31 B*27:53 B*27:95
8070	Chang , Uckjin							*02:01	*32:01	*27:02	*52:01	*02:02	*03:03	SBT	
798	Claas , F.H.J.							*02:01:01	*32:01:01	*27:02:01	*52:01:02	*02:02:02	*03:03:01	SBT	
3632	Colombe , Beth W.	*02	*32	*27	*52	*02	*03	*02:01	*32:01	*27:02	*52:01	*02:02	*03:03	SSP SSO	
779	Daniel , Claude	*02	*32	*27	*51	*02	*03						*03:03	SSP SSO	
8099	Danish , Adel	*02	*32	*27	*51	*02	*15							SSO	
3766	Dunckley , Heather	*02	*32	*27	*52	*02	*03							SSO	
5214	Eckels/CPMC ,	*02	*32	*27	*52	*02	*03 (Cw9)							SSO	
762	Fischer , Gottfried							*02:01:01:01	*32:01:01	*27:02:01	*52:01:02	*02:02:02:01	*03:03:01	SSO SBT NGS	
4079	Fort , Marylise	*02	*32	*27	*52	*02	*03	*02:01	*32:01	*27:02	*52:01	*02:02	*03:03	SSP SSO	
8043	Gideoni , Osnat	*02	*32	*27	*52	*02	*03							SSP SSO	
3545	Goldstein , Steven	*02	*32	*27	*52	*02	*03	*02:01	*32:01	*27:02	*52:01	*02:02	*03:03	SSO SBT	C*03:20N C*03:227
810	Hamdi , Nuha							*02:01	*32:01	*27:02	*52:01	*02:02	*03:03	SSO	
771	Israel , Shoshana	*02	*32	*27	*52	*02	*03	*02:01	*32:01	*27:02	*52:01	*02:02	*03:03	SSO SBT	
725	Lardy , N.M.	*02	*32	*27	*52	*02	*03							SSP SSO	
745	Latham , Katy							*02:01:01:01	*32:01:01	*27:02:01	*52:01:02	*02:02:02	*03:03:01	SSP SBT NGS	
278	Lee , Jar-How	*02	*32	*27	*52	*02	*03	*02:01	*32:01	*27:02	*52:01	*02:02	*03:03		
6649	Lim , Young Ae	*02	*32	*27	*52									SSP	
54	Pancoska , Carol	*02	*32	*27	*52	*02	*03								
8001	Rao , Prakash	*02	*32	*27	*52	*02	*03 (Cw9)								
3625	Rees , Tracey	*02	*32	*27	*52	*02	*03	*02:01	*32:01	*27:02	*52:01	*02:02	*03:03		C*03:227
793	Rubocki , Ronald	*02	*32	*27	*52	*02	*03							SSP	
4251	Schiller , Jennifer	*02	*32	*27	*52	*02	*03	*02:01:01G	*32:01	*27:02	*52:01	*02:02	*03:03:01G	SSO SBT	
3808	Thornton , Alycia	*02	*32	*27	*52	*02	*03							SSP	
5642	Varnavidou-Nicolaic	*02	*32	*27	*52	*02	*03							SSP	
3186	Watson , Narelle	*02	*32	*27	*52	*02	*03							SSO	
16	Zhang , Aiwen	*02	*32	*27	*52	*02	*03	*02:01:01	*32:01:01	*27:02:01	*52:01:02	*02:02	*03:03:01	SSP SSO SBT	A*32:28 A*02:20:01 C*02:19 C*02:26:03 C*02:61 C*02:62 C*03:13:02 C*03:20N C*02:27:01 C*03:116:01 C*03:227 C*03:03:04 A*02:24:02 A*32:31 C*03:43:01

Table 13. Individual laboratory results for Cell #1583

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*02	*32	*27	*44	*02	*05	*02:01	*32:01	*27:05	*44:02	*02:02	*05:01	SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*02:01:01:01	*32:01:01	*27:05:02	*44:02:01:01	*02:02:02:01	*05:01:01:02	NGS	
4492	Caillat-Zucman , So	*02	*32	*27	*44	*02	*05							SSP	
774	Cecka , J. Michael	*02	*32	*27	*44	*02	*05							SSP SSO	
8070	Chang , Uckjin							*02:01	*32:01	*27:05	*44:02	*02:02	*05:01	SBT	
798	Claas , F.H.J.							*02:01:01	*32:01:01	*27:05:02	*44:02:01	*02:02	*05:01	SBT	
3632	Colombe , Beth W.	*02	*32	*27	*44	*02	*05	*02:01	*32:01	*27:05	*44:02	*02:10	*05:01	SSP SSO	
779	Daniel , Claude	*02	*32	*27	*44	*02	*05							SSP SSO	
8099	Danish , Adel	*02	*03	*27	*52	*02	*03							SSO	
3766	Dunckley , Heather	*02	*32	*27	*44	*02	*05							SSO	
5214	Eckels/CPMC ,	*02	*32	*27	*44	*02	*05							SSO	
762	Fischer , Gottfried							*02:01:01:01	*32:01:01	*27:05:02	*44:02:01:01	*02:02:02:01	*05:01:01:02	SSO SBT NGS	
8043	Gideoni , Osnat	*02	*32	*27	*44	*02	*05	*02:01	*32:01	*27:05	*44:02	*02:02	*05:01	SSP SSO	
3545	Goldstein , Steven	*02	*32	*27	*44	*02	*05	*02:01	*32:01	*27:05	*44:02	*02:02	*05:01	SSO SBT	B*27:13 B*44:19N
810	Hamdi , Nuha							*02:01	*32:01	*27:05	*44:02	*02:02	*05:01	SSO	
771	Israel , Shoshana	*02	*32	*27	*44	*02	*05	*02:01	*32:01	*27:05	*44:02	*02:02	*05:01	SSO SBT	
725	Lardy , N.M.	*02	*32	*27	*44	*02	*05							SSP SSO	
745	Latham , Katy							*02:01:01:01	*32:01:01	*27:05:02	*44:02:01:01	*02:02	*05:01	SSP SBT NGS	
278	Lee , Jar-How	*02	*32	*27	*44	*02	*05	*02:01	*32:01	*27:05	*44:02	*02:02	*05:01		
6649	Lim , Young Ae	*02	*32	*27	*44									SSP	
54	Pancoska , Carol	*02	*32	*27	*44	*02	*05								
8001	Rao , Prakash	*02	*32	*27	*44	*02	*05								
3625	Rees , Tracey	*02	*32	*27	*44	*02	*05	*02:01	*32:01	*27:05	*44:02	*02:02	*05:01		
793	Rubocki , Ronald	*02	*32	*27	*44	*02	*05							SSP	
4251	Schiller , Jennifer	*02	*32	*27	*44	*02	*05	*02:01:01G	*32:01	*27:05:02G	*44:02:01G	*02:02	*05:01	SSO SBT	
3808	Thornton , Alycia	*02	*32	*27	*44	*02	*05							SSP	
5642	Varnavidou-Nicolaic	*02	*32	*27	*44	*02	*05							SSP	
3186	Watson , Narelle	*02	*32	*27	*44	*02	*05							SSO	
16	Zhang , Aiwen	*02	*32	*27	*44	*02	*05	*02:01:01	*32:01:01	*27:05	*44:02	*02:02	*05:01	SSP SSO SBT	C*02:22 C*05:04:02 C*05:08 A*02:24:02 A*32:28 A*32:31 C*02:26:02 C*02:32 C*02:08 A*02:20:01 C*05:58:02 C*02:43 C*05:26

Table 14. Individual laboratory results for Cell #1584

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*02	*03	*27	*51	*01	*15	*02:01	*03:02	*27:05	*51:02P	*01:02	*15:02	SSP SSO SBT RT-PCR	B*51:193
5133	Askar , Medhat							*02:01:01:01	*03:02:01	*27:05:02	*51:02:01:01	*01:02:01	*15:02:01	NGS	
4492	Caillat-Zucman , S	*02	*03	*27	*51	*01	*15							SSP	
774	Cecka , J. Michael	*02	*03	*27	*51	*01	*15							SSP SSO	
8070	Chang , Uckjin							*02:01	*03:02	*27:05	*51:02	*01:02	*15:02	SBT	
798	Claas , F.H.J.							*02:01:01	*03:02:01	*27:05:02	*51:02:01	*01:02:01	*15:02:01	SBT	
3632	Colombe , Beth W	*02	*03	*27	*51	*01	*15	*02:01	*03:02	*27:05	*51:02	*01:02	*15:02	SSP SSO	
779	Daniel , Claude	*02	*03	*27	*51	*01	*15							SSP SSO	
8099	Danish , Adel	*02	*68	*27	*44	*02	*05							SSO	B*47
3766	Dunckley , Heathe	*02	*03	*27	*51	*01	*15							SSO	
5214	Eckels/CPMC ,	*02	*03	*27	*51	*01	*15							SSO	
762	Fischer , Gottfried							*02:01:01:01	*03:02:01	*27:05:02	*51:02:01:01	*01:02:01	*15:02:01	SSO SBT NGS	
8043	Gideon , Osnat	*02	*03	*27	*51	*01	*15							SSP SSO	
3545	Goldstein , Steven	*02	*03	*27	*51	*01	*15	*02:01	*03:02	*27:05	*51:02	*01:02	*15:02	SSO SBT	B*27:13 C*01:85 B*51:193 C*15:87
810	Hamdi , Nuha							*02:01	*03:02	*27:03	*51:02	*01:02	*15:02	SSO	
771	Israel , Shoshana	*02	*03	*27	*51	*01	*15	*02:01	*03:02	*27:05	*51:02	*01:02	*15:02	SSO SBT	
725	Lardy , N.M.	*02	*03	*27	*51	*01	*15							SSP SSO	
745	Latham , Katy							*02:01:01:01	*03:02:01	*27:05:02	*51:01:01:01	*01:02:01	*15:02:01	SSP SBT NGS	
278	Lee , Jar-How	*02	*03	*27	*51	*01	*15	*02:01	*03:02	*27:05	*51:02	*01:02	*15:02		
6649	Lim , Young Ae	*02	*03	*27	*51									SSP	
54	Pancoska , Carol	*02	*03	*27	*51	*01	*15								
8001	Rao , Prakash	*02	*03	*27	*51	*01	*15								
3625	Rees , Tracey	*02	*03	*27	*51	*01	*15	*02:01	*03:02	*27:05	*51:02	*01:02	*15:02		B*51:193
793	Rubocki , Ronald	*02	*03	*27	*51	*01	*15							SSP	
4251	Schiller , Jennifer	*02	*03	*27	*51	*01	*15	*02:01:01G	*03:02:01	*27:05:02G	*51:02:01G	*01:02:01G	*15:02:01G	SSO SBT	
3808	Thornton , Alycia	*02	*03	*27	*51	*01	*15							SSP	
5642	Varnavidou-Nicola	*02	*03	*27	*51	*01	*15							SSP	
3186	Watson , Narelle	*02	*03	*27	*51	*01	*15							SSO	
16	Zhang , Aiwen	*02	*03	*27	*51	*01	*15	*02:01:01	*03:02:01	*27:05:02G	*51:02	*01:02	*15:02	SSP SSO SBT	C*01:49 B*27:05:18 B*51:193 C*01:14 C*15:07 C*15:37 A*02:237 A*03:10 B*27:27 B*51:11N B*51:85 C*01:22 C*01:48 C*15:08 C*15:10:02

Table 15. Individual laboratory results for Cell #1581-1584 by serology

Investigator	Days Old	Cell No 1581 (Chinese)										Cell No 1582 (Hispanic)								Cell No 1583 (Mixed)								Cell No 1584 (Mixed)									
		Viab %	A2	A11	B35	B46	Cw1	Cw4	Bw6	OTHERS	Viab %	A2	A32	B27	B52	Cw2	Cw3	Bw4	OTHERS	Viab %	A2	A32	B27	B44	Cw2	Cw5	Bw4	OTHERS	Viab %	A2	A3	B27	B51	Cw1	Cw15	Bw4	OTHERS
Cecka, J. Mic	2	>95	+	+	+	+					>95	+	+	+	+					>95	+	+	+	+					>95	+	+	+	+				
Claas, F.H.J.	6	90	+	+	+	+	+	+			90	+	+	+	+	+				90	+	+	+	+	+			90	+	+	+	+	+				
Dunckley, Hea	7	99	+	+	+	+					99	+	+	+	+					99	+	+	+	+				99	+	+	+	+					
Enczmann, J		90	+	+	+	+					85	+	+	+	+					90	+	+	+	+				90	+	+	+	+					
Fort, Marylis	3	98	+	+	+	+			+		98	+	+	+	+			+		99	+	+	+	+													
Hahn, Amy B.		99	+	+	+	+			+		99	+	+	+	+			+		99	+	+	+	+			+	75	+	+	+	+				+	
Juarez, Fabio		98	+	+	+	+	+	+	+		98	+	+	+	+	+	Cw9	+		98	+	+	+	+	+	+	+	98	+	+	+	+	+				+
Latham, Katy	3																																				
Pancoska, Car	2	98	+	+	+	+					98	+	+	+	+					98	+	+	+	+				98	+	+	+	+					
Permpikul, Ve	6	90	+	A11.1	+	+			+		85	+	+	+	+			+		90	+	+	+	+			+	90	+	+	+	+				+	
Pule, Ziningi		0									80	+	+	+	+	+	+	B5		75	+	+	+	+	+	+	B38	80	+	+	+	+	+			B38	
Rees, Tracey		90	+	+	+	+	+	+			90	+	+	+	+	+	+			90	+	+	+	+	+	+		90	+	+	+	+	+				
Renac, Virgin	3	100	+	+	+	+			+		100	+	+	+	+			+		100	+	+	+	+			+	100	+	+	+	+				+	
Rubocki, Rona		98	+	+	+	+	+	+	+		98	+	+	+	+	+	+			98	+	+	+	+	+	+	+	98	+	+	+	+	+				+
Shai, Isaac	9	84	+	+	+	B70	+	+	+	B75,Cw3	88	+	+	+	+	+	+	Bw6		90	+	+	+	+	+	+	86	+	+	+	+	+			+	Cw5	
Thornton, Aly		60	+	+	+	+	+	+	+		60	+	+	+	+	+	+			30	+	+	+	+	+	+	+	70	+	+	+	+	+				+
Varnavidou-Ni	7	90	+	+	+	+			+		90	+	+	+	+			+		85	+	+	+	+			+	90	+	+	+	+				+	
Vidan-Jeras,	6	100	+	+	+	+	+	+	+		100	+	+	+	+	+	+	Bw6		95	+	+	+	+		+	+	90	+	+	+	+	+				+
Watson, Narel	10	97	+	+	+	+			+		95	+	+	+	B5			+		97	+	+	+	+			+	98	+	+	+	B5				+	
Zhang, Aiwen	2	90	+	+	+	+	+	+			95	+	+	+	+	+	+			90	+	+	+	+	+			95	+	+	+	+	+				

SERUM EXCHANGE #554

The results for **Serum Exchange 554 (sera 1209 - 1212)**, are summarized in Tables 16-21 and individual laboratory results by method are listed in

Tables 22-31. Sera reactive to A2, A3, B8, A29, and B5C specificities were examined in this study.

1209	method	#labs	A3	A2	A30	A31	A33	A29	A68	A69	A80	A74	B8	A25	A36	A28	B13	B27	B2708	B7	A11	B60	B61
class I	NIH-Std	5	80	40	20	20	20													20			
	NIH-Ext	2	100	100	50		50	50								50							
	AHG	3	50	100	50	50	50	50	50			50				50				50			
	Luminex	30	97	97	97	97	97	93	97	97	67	97	33	73	70		93	97	33	97	63	90	90
	ELISA	2	100	100	50	50	100	100	50	50	100	100	100	50	50		50	50				50	50
	Flow	1	no specificities assigned																				
	C1q	1	no consensus																				
	Other	4	50	25	25	25	25		25	25	25									25	25		

1209	method	#labs	B42	B48	B55	B56	B67	B38	B65	B59	B63	B64	A34	B47	B81	Cw7	Cw6	A32	A66	A24	A2403	B73	B39
	AHG	3											50										
	Luminex	30	80	83	47	43	57	13	10	7	3	3	93	93	83	87	80	77	73	57	33	53	
	ELISA	2	50	50	50	50	50	50	50	50	50	50											50

1209	method	#labs	DQ2	DR15	DR16	DR7	DR9	DR12	DP11	DQ5	DP14	DP17	DPw5	DR51	DP10	DP15	DQA1*02	DR103	DP9	DPA1*02	DPA1*04	DP13	DPw1	DPw6	DP28	DP18	DPw3	DR1	DR10	DQ4	DQ7	DQ8	DQ9	DP19	DQA1*05
class II	Luminex	26	100	100	100	100	100	100	81	77	69	65	65	65	62	62	62	62	58	54	50	50	38	38	38	35	35	19	19	19	15	15	15	12	12
	Other	2	50	50	50	50	50																												

Serum 1209 was reported as positive to A2 and A3 by all methods. Anti-A33 reactivity and reactivity 1C specificities was also reported by various methods. In addition, reactivity to A28 (A68, A69), and to a number of 5C, 7C, and 10C specificities was reported by Luminex and ELISA. Reactivity to Cw6 and Cw7 was also reported by Luminex. For class II, reactivity to DQ2, DR15, DR16, DR7, and DR9 was reported by Luminex single antigen and Luminex PRA. Additional reactivity to DR12, DQ5, and a number of DP antigens was also reported by single antigen.

1210	method	#labs	B8	A2	A26	A34	A1	A11	A25	A3	B18	B14	B64	B65	A68	A66	A33	A29	A31	A74	A36	A80	B46	B57	B58	B59	B78	B38	B51	A43	A69	B54	B58	B39	B73	B71	B75	Cw5	B52	A25	A1101		
class I	NIH-Std	5	60	40	40		40	20	20	20	20	20																															
	NIH-Ext	2	no specificities assigned																																								
	AHG	3	100	100	100	100	50	50			50	50				50																											
	Luminex	30	100	100	100	100	93	70	30	93	100		90	90	100	80	100	93	97	100	97	93	27	93	62	93	83	70	90	93	90	90	90	98	87	87	50	50	50	50	47	40	30
	ELISA	2	50	100	50	50	50	50	50	50	50		50	50	50	100	50	100	50	50	50	50	50	50	50	50	50	50															
	Flow	1	no specificities assigned																																								
	C1q	1	no consensus																																								
	Other	3	33	33	33		33			33	33				33	33	33								33																		

1210	method	#labs	Negative	DP11	DQ2	DQA1*05
class II	Luminex	15	72	22	6	6
	Other	2	100			

For **Serum 1210**, reactivity to A2 and B8 was reported by all methods. In addition, reactivity to B18 and number of 1C and 10C specificities was reported by various methods. Luminex and ELISA also reported reactivity to 5C and 8C specificities. Several labs noted allele specific reactivity to A*11:01 and B*51:01. For class II, weak anti-DP11 reactivity was reported by several Luminex labs. The remaining Luminex labs, reported this sample as negative for class II.

1211	method	#labs	A29	A26	A25	A66	A34	A3	A30	A31	A32	A33	A68	A69	A74	A80	A11	A1	A43	A36	A23	A6601	A6602	B44	B82
class I	NIH-Std	4	no specificities assigned																						
	NIH-Ext	2	100	50																					
	AHG	3	100				50		50	50															
	Luminex	29	100	97	76	79	93	86	90	90	76	90	76	52	93	83	72	86	97	90	31	24	24	24	21
	ELISA	2	100	50	50	50	50	100	50	50	50	50	50	50	50	50	50								
	Flow	1	no specificities assigned																						
	C1q	1	no consensus																						
	Other	3	33	33	33	33		33	33	33	33	33	33			33	33	33							

1211	method	#labs	DR7	DR9	DR53	DQ2	DQA1*05	DR1	
class II	Luminex	17	100	96	46	23	8	8	
	Other	2	no consensus						

Serum 1211 was reported as positive to A29 by all methods. Additional reactivity to a number of 10C specificities was reported by various methods. For class II, strong anti-DR7 and DR9 reactivity was reported by Luminex. In addition, a few Luminex labs reported reactivity to DR53 and DQ2.

1212	method	#labs	B51	B49	A29	B63	B57	B38	B62	A23	A24	A25	A26	A34	A31	A32	A33	A74	A30	A66	B58	B35	B46	B50	B52	B53	B56	B59	B71	B72	B75	B77	B76	Cw14	A43	A68	A69	A2
class I	NIH-Std	4	25				25																															
	NIH-Ext	2	50	100	100	50	50																															
	AHG	3	100	100	50	50		50	50																													
	Luminex	29	97	100	100	90	100	93	90	100	100	100	100	100	100	100	100	100	97	86	100	100	83	97	97	100	100	93	90	83	90	90	65	23	97	90	73	79
	ELISA	2	50	50	100	50	50	50	100	100	50	50	50	50	50	50	50	50			50	50	50	50	50	50	50	50	50	50			50					
	Flow	1	no specificities assigned																																			
	C1q	1	no consensus																																			
	Other	3			33					33	33	33	33	33	33	33	33		33	33																		

1212	method	#labs	Negative	DPA1*04	DP28	DR9
class II	Luminex	16	68	21	5	5
	Other	2	100			

For **Serum 1212**, strong reactivity to B51 was reported by all methods. In addition, anti-A29, -B49, and -B57 reactivity, along with reactivity to 1C, 5C, and 10C specificities, was reported by various methods. Anti-B38, -B56, -B59, and -Cw14 reactivity was also reported by Luminex and ELISA. Additional reactivity to 2C specificities was also reported by Luminex. For class II, a few Luminex labs (21%) reported anti-DPA1*04 reactivity, while the remainder of the Luminex labs (68%) reported this sample as negative for class II.

SERUM EXCHANGE #555

The results for **Serum Exchange 555 (sera 1213 - 1216)**, are summarized in Tables 32-37 and individual laboratory results by method are listed in Tables 38-48. Sera reactive to A11, B12(B44, B45), B13, and 5C specificities were examined in this second study.

1213	method	#labs	B44	B45	A2	B50	B49	A68	A69	A28	B60	B61	B13	B41	B47	B57	B58	B7	B27	B81	B62	B48	B72	A33	A32	B76	B82	A66	B73	A25	A26	A31	A6602	A29	B2708	B52	A203	A74		
class I	NIH-Std	5	100	80	20	20																																		
	NIH-Ext	2	100	100	100	50	50	50			50	50																												
	AHG	3	100	100	100	67	67	33		67	67	100	67	33	33	33	33	33																						
	Luminex	29	100	100	100	100	100	100	100		93	93	100	100	100	97	97	100	97	86	48	76	48	100		90	90	79	76	45	45	31	31	28	28	24	21	21		
	ELISA	2	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100	100	100	50	100	50	100	50															
	Flow	1	no specificities assigned																																					
	C1q	1	no consensus																																					
	Other	3	33	33		33	33				33	33	33																											

1213	method	#labs	DR4	DR9	DP11	DR7	DO5	DR53	DQA1*01
class II	Luminex	24	96	21	21	13	8	8	4
	Other	2	50						

For **serum 1213** strong positivity to B12 (44, B45) was reported by all methods. In addition, strong reactivity to A2, A28 (A68, A69), B13, and B21 (B49, B50) was reported by various methods. AHG, ELISA, and Luminex also reported reactivity to B57, B58, and a few 7C specificities. For class II, strong anti-DR4 reactivity was reported by Luminex.

1214	method	#labs	A11	A1101	A1102	A66	A6601	A6602	B38	B39	A1	A3	A36	A25	A26	A34	A68	A69	A28	A24	A2403	B18	B42	A29	A30	A31	A80	A32	A33	A74	B35	B37	B41	B51	B52	
class I	NIH-Std	5	100			20			20	40	20	40		20	20																					
	NIH-Ext	2	100			100			100	100			50						50	50																
	AHG	3	100			33			67	33	100	67	33			33	67		67	33		33	33													
	Luminex	29	86	21	21	86	24	24	97		97	97	97	100	100	97	97	100		97	21	100	93	100	97	97	97	100	100	100	100	100	97	93	93	
	ELISA	2	100			100			100	100	100	100	100	100	100	100	100	100				100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Flow	1	no specificities assigned																																	
	C1q	1	no consensus																																	
	Other	3	no specificities assigned																																	

1214	method	#labs	B53	B54	A43	B55	B8	B39	B49	B67	B65	B56	B59	B71	B58	B62	B63	B72	B77	B57	B75	A23	B64	B76	B27	B2708	B48	B78	B50	B73	Cw7	Cw15	B44	B47	B82	Bw6
	NIH-Ext	2																																		
	AHG	3				33	33																													
	Luminex	29	93	97	97	100	100	93	97	97	90	93	93	93	90	90	90	90	90	90	90	86	86	86	72	21	72	72	72	59	62	59	55	48	45	33
	ELISA		100	100																																

1214	method	#labs	Negative
class II	Luminex	17	100
	Other	2	100

Serum 1214 was reported as strongly positive to A11 (A1101, A1102), and A66 (A6601, A6602) by NIH, antiglobulin, Luminex, and ELISA. In addition, reactivity to B18, B38, B39, and B42, along with reactivity to other 1C and 10C specificities was reported by various methods. Additional strong anti-B49 reactivity and reactivity to 5C and 8C specificities was reported by Luminex. This sample was reported as negative for class II.

1215	method	#labs	B57	B58	B49	B50	B51	B52	A25	A32	A23	A24	A2403	B13	B27	B2708	B37	B38	Bw4	B44	B45	B35	B53	B63	B62	B71	B72
class I	NIH-Std	4	75		50		25	25	25						25				25	25							
	NIH-Ext	2	100	100	100		100	50	50	100		50		50	50		50	50		50			100	50			50
	AHG	3	33		33	33	33		67	67	67	100		33	33		33		67			33			33		
	Luminex	28	100	100	100	100	100	100	93	100	100	100	21	100	100	21	100	100	31	100	100	100	100	93	89	93	93
	ELISA	2	100	100	100	100	100	100	100	100	100	100		100			100	100		100	100	100	100	100	100	100	100
	Flow	1	no specificities assigned																								
	C1q	1	no consensus																								
	Other	3							33	33	33	33							33								

1215	method	#labs	B18	B47	B54	B55	B56	B59	A33	A28	A2	A26	B65	B16	B46	B77	B67	B75	B78	B7801	A31	B39	B41	B8	B82		
class I	NIH-Std	4							25	25	25	25															
	AHG	3												33													
	Luminex	28	86	100	100	100	100	100	3		3		64	3		93	89	89	89	18	89	71	43	36	21		
	ELISA	2	100	100	100	100	100	100							100												

1215	method	#labs	DR13	DQ6	DR12	DQ9	DQ8	DR4	DQA1*01	DQA1*03	DR103
class II	Luminex	24	96	96	83	67	62	54	25	25	25
	Other	2	50	50							

For serum **1215**, reactivity to 5C specificities was reported by all methods. Additional reactivity to B38, Bw4, as well as to 1C, 7C, and 12C specificities, was reported by various methods. For class II, strong DR and DQ reactivity (DR4, DR12, DR13, DQ6, DQ8, DQ9) was reported by Luminex. In addition, allele specific DRB1*12:01 reactivity, along with weak DRB1*04:02 reactivity, was reported by a number of (n = 5) labs.

1216	method	#labs	B13	A32	B18	B38	B39	B3901	B41	B60	B61	B44	B45	B47	B35	B37	B48	B49	B50	B51	B52	B53	B59	B62	B72	B75	B78	B8	A25	A26
class I	NIH-Std	4	100																											
	NIH-Ext	2	100																											
	AHG	3	100	67	33	33	33		33	33	33	33		33																
	Luminex	28	100	100	100	100	89	18	100	89	86	100	100	93	100	100	89	100	100	93	93	100	96	93	93	93	93	100	96	93
	ELISA	2	100	100	100	100	100		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	50
	Flow	1	no specificities assigned																											
	C1q	1	no consensus																											
	Other	3	33		33				33	33	33		33											33						

1216	method	#labs	A29	A24	B27	A23	A74	A34	A33	A3	A30	A43	A68	B47	B71	B77	A31	B64	B76	A66	A6601	A6602	A69	A11	B65	B7	B54	B67	A80
	AHG	3		33	33	33																							
	Luminex	28	96	3	3		100	100	96	96	93	93	93	93	93	93	89	89	89	89	21	21	79	79	75	29	21	21	18
	ELISA	2	100																										

1216	method	#labs	DR7	DR9	DQ2	DR11	DP28	DPw3	DP18	DPw2	DP14	DP17	DP10	DP20	DP9	DPw6	DR52	DPw4	DR12	DP402	DQA1*02	DPA1*01	DPA1*04	DQA1*05	DR10	DR13	DPA1*02
class II	Luminex	24	96	96	96	92	88	88	88	83	79	79	67	67	67	67	63	58	46	38	33	17	13	13	8	8	8
	C1q	1																									
	Other	2																									

Serum 1216 was reported as strongly positive to B13 by all methods. Additional reactivity to B18, B38, B39, as well as to 5C, 7C, and 12C specificities was reported by various methods. Strong anti-A25, -A26, and -B8 reactiv-

ity was also reported by antiglobulin and Luminex. For class II, strong reactivity to DR7, DR9, DR11, and DQ2 was reported along with strong reactivity to a number of DP antigens.

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Table 16. Summary of the 554th Serum Exchange (Serum #1209-1212) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard											
*** Serum 1209 ***			*** Serum 1210 ***			*** Serum 1211 ***			*** Serum 1212 ***		
5 typing Labs			5 typing Labs			4 typing Labs			4 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A3	80%	100%	B8	60%	50%	no specificities assigned			B57	25%	100%
A2	40%	46%	A26	40%	100%						
A30	20%	100%	A1	40%	80%						
A31	20%	100%	A2	40%	56%						
A33	20%	100%	A11	20%	100%						
B7	20%	100%	A25	20%	100%						
			A3	20%	100%						
			B14	20%	100%						
			B18	20%	100%						

Method: NIH-Extended											
*** Serum 1209 ***			*** Serum 1210 ***			*** Serum 1211 ***			*** Serum 1212 ***		
2 typing Labs			5 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A3	100%	93%	no antigens assigned			A29	100%	100%	A29	100%	100%
A2	100%	69%				A26	50%	67%	B49	100%	75%
A29	50%	100%							B63	50%	100%
A30	50%	100%							B51	50%	50%
A33	50%	100%							B57	50%	50%
A28	50%	83%									

Table 17. Summary of the 554th Serum Exchange (Serum #1209-1212) by Antiglobulin, C1q, and Other - class I

Method: Antiglobulin											
*** Serum 1209 ***			*** Serum 1210 ***			*** Serum 1211 ***			*** Serum 1212 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A2	100%	79%	A26	100%	100%	A29	100%	67%	B49	100%	100%
A28	50%	100%	B8	100%	100%	A31	50%	50%	B51	100%	67%
A29	50%	100%	A2	100%	85%	A34	50%	33%	A29	50%	100%
A3	50%	100%	A34	100%	67%	A30	50%	29%	B15	50%	100%
A30	50%	100%	A28	50%	100%				B61	50%	100%

Method: C1q											
*** Serum 1209 ***			*** Serum 1210 ***			*** Serum 1211 ***			*** Serum 1212 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

Method: Other											
*** Serum 1209 ***			*** Serum 1210 ***			*** Serum 1211 ***			*** Serum 1212 ***		
4 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A3	50%	100%	A1	33%	100%	A1	33%	100%	A23	33%	100%
A11	25%	100%	A2	33%	100%	A11	33%	100%	A24	33%	100%
A2	25%	100%	A26	33%	100%	A25	33%	100%	A25	33%	100%
A30	25%	100%	A3	33%	100%	A26	33%	100%	A26	33%	100%
A31	25%	100%	A33	33%	100%	A29	33%	100%	A29	33%	100%
A33	25%	100%	A66	33%	100%	A3	33%	100%	A30	33%	100%
A68	25%	100%	A68	33%	100%	A30	33%	100%	A31	33%	100%
A69	25%	100%	B18	33%	100%	A31	33%	100%	A32	33%	100%
A80	25%	100%	B58	33%	100%	A32	33%	100%	A33	33%	100%
B7	25%	100%	B8	33%	100%	A33	33%	100%	A34	33%	100%
						A66	33%	100%	A66	33%	100%
						A68	33%	100%			
						A80	33%	100%			

Table 18. Summary of the 554th Serum Exchange (Serum #1209-1212) by Luminex - class I

Method: Luminex											
*** Serum 1209 ***			*** Serum 1210 ***			*** Serum 1211 ***			*** Serum 1212 ***		
30 typing Labs			30 typing Labs			29 typing Labs			29 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A2	97%	100%	A2	100%	100%	A29	100%	100%	A29	100%	100%
A3	97%	100%	A26	100%	100%	A43	97%	100%	A32	100%	100%
A30	97%	100%	A33	100%	100%	A26	97%	62%	A33	100%	100%
A31	97%	100%	A34	100%	100%	A74	93%	100%	A74	100%	100%
A33	97%	100%	A68	100%	100%	A34	93%	67%	B35	100%	100%
A68	97%	100%	A74	100%	100%	A30	90%	62%	B49	100%	100%
A69	97%	100%	B18	100%	100%	A31	90%	100%	B53	100%	100%
A74	97%	100%	B8	100%	100%	A33	90%	100%	B56	100%	100%
B27	97%	100%	A31	97%	100%	A36	90%	100%	B57	100%	100%
B7	97%	100%	A36	97%	75%	A1	86%	100%	B58	100%	100%
A29	93%	100%	A29	93%	100%	A3	86%	100%	A34	100%	92%
A34	93%	100%	A43	93%	100%	A80	83%	100%	A23	100%	89%
B13	93%	100%	A80	93%	100%	A66	79%	80%	A25	100%	88%
B47	93%	83%	B57	93%	100%	A25	76%	100%	A31	100%	86%
B60	90%	100%	A1	93%	87%	A32	76%	100%	A24	100%	83%
B61	90%	100%	B59	93%	86%	A68	76%	83%	A26	100%	75%
Cw7	87%	91%	A3	93%	83%	A11	72%	100%	A43	97%	100%
B48	83%	100%	A69	90%	100%	A69	52%	100%	B51	97%	100%
B81	83%	100%	B54	90%	100%	A23	31%	100%	B52	97%	100%
B42	80%	100%	B58	90%	100%	A6601	24%	100%	B50	97%	86%
Cw6	80%	88%	B64	90%	100%	A6602	24%	100%	A30	97%	81%
A32	77%	67%	B65	90%	100%	B44	24%	100%	B59	93%	100%
A25	73%	100%	B51	90%	62%	B82	21%	100%	B38	93%	88%
A66	73%	67%	B39	87%	100%				A68	90%	100%
A36	70%	100%	B73	87%	100%				B63	90%	100%
A80	67%	100%	B78	83%	100%				B77	90%	100%
A11	63%	100%	A66	80%	100%				B62	90%	88%
B67	57%	100%	B38	70%	100%				B71	90%	86%
A24	57%	50%	A11	70%	60%				B75	90%	75%
B73	53%	100%	B71	50%	100%				A66	86%	93%
B55	47%	100%	B75	50%	100%				B72	83%	100%
B56	43%	100%	Cw5	50%	100%				B46	83%	80%
A2403	33%	100%	B52	47%	100%				A2	79%	92%
B2708	33%	100%	A25	40%	100%				A69	73%	100%

Table 19. Summary of the 554th Serum Exchange (Serum #1209-1212) by ELISA and Flow Cytometry - class I

Method: ELISA											
*** Serum 1209 ***			*** Serum 1210 ***			*** Serum 1211 ***			*** Serum 1212 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A2	100%	100%	A2	100%	100%	A29	100%	100%	A23	100%	100%
A29	100%	100%	A29	100%	100%	A3	100%	100%	A29	100%	100%
A3	100%	100%	A66	100%	100%	A25	50%	100%	B62	100%	100%
A33	100%	100%	A1	50%	100%	A26	50%	100%	A24	50%	100%
A74	100%	100%	A11	50%	100%	A32	50%	100%	A25	50%	100%
A80	100%	100%	A25	50%	100%	A33	50%	100%	A26	50%	100%
B8	100%	100%	A26	50%	100%	A34	50%	100%	A31	50%	100%
A25	50%	100%	A3	50%	100%	A66	50%	100%	A32	50%	100%
A30	50%	100%	A31	50%	100%	A68	50%	100%	A34	50%	100%
A31	50%	100%	A34	50%	100%	A69	50%	100%	A74	50%	100%
A36	50%	100%	A36	50%	100%	A74	50%	100%	B35	50%	100%
A68	50%	100%	A68	50%	100%	A80	50%	100%	B38	50%	100%
A69	50%	100%	A74	50%	100%	A11	50%	50%	B46	50%	100%
B13	50%	100%	A80	50%	100%	A30	50%	50%	B49	50%	100%
B27	50%	100%	B18	50%	100%	A31	50%	50%	B50	50%	100%
B38	50%	100%	B46	50%	100%				B51	50%	100%
B39	50%	100%	B57	50%	100%				B52	50%	100%
B42	50%	100%	B58	50%	100%				B53	50%	100%
B48	50%	100%	B59	50%	100%				B56	50%	100%
B55	50%	100%	B64	50%	100%				B57	50%	100%
B56	50%	100%	B65	50%	100%				B58	50%	100%
B59	50%	100%	B78	50%	100%				B59	50%	100%
B60	50%	100%	B8	50%	100%				B63	50%	100%
B61	50%	100%	A33	50%	50%				B71	50%	100%
B63	50%	100%	B38	50%	50%				B72	50%	100%
B64	50%	100%	B51	50%	50%				B75	50%	100%
B65	50%	100%							Cw14	50%	100%
B67	50%	100%							A33	50%	50%

Method: Flow			
*** Serum 1209 ***	*** Serum 1210 ***	*** Serum 1211 ***	*** Serum 1212 ***
1 typing Lab	1 typing Lab	1 typing Lab	1 typing Lab
no antigens assigned	no antigens assigned	no antigens assigned	no antigens assigned

Table 20. Summary of the 554th Serum Exchange (Serum #1209-1212) by NIH-Extended, C1q and Luminex - class II

Method: NIH-Extended															
*** Serum 1209 ***				*** Serum 1210 ***				*** Serum 1211 ***				*** Serum 1212 ***			
1 typing Lab				1 typing Lab				1 typing Lab				1 typing Lab			
Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion	
Undefined				Undefined				Undefined				Undefined			
Method: C1q															
*** Serum 1209 ***				*** Serum 1210 ***				*** Serum 1211 ***				*** Serum 1212 ***			
1 typing Lab				1 typing Lab				1 typing Lab				1 typing Lab			
Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion	
no consensus				no consensus				no consensus				no consensus			
Method: Other															
*** Serum 1209 ***				*** Serum 1210 ***				*** Serum 1211 ***				*** Serum 1212 ***			
2 typing Labs				2 typing Labs				2 typing Labs				2 typing Labs			
Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion	
DQ2	50%	100%		Negative	100%	100%		no consensus				Negative	100%	100%	
DR15	50%	100%													
DR16	50%	100%													
DR7	50%	100%													
DR9	50%	100%													

Table 21. Summary of the 554th Serum Exchange (Serum #1209-1212) by Luminex - class II

Method: Luminex											
*** Serum 1209 ***			*** Serum 1210 ***			*** Serum 1211 ***			*** Serum 1212 ***		
26 typing Labs			18 typing Labs			26 typing Labs			19 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ2	100%	100%	Negative	72%	100%	DR7	100%	100%	Negative	68%	100%
DR15	100%	100%	DP11	22%	50%	DR9	96%	100%	DPA1*04	21%	100%
DR16	100%	100%	DQ2	6%	100%	DR53	46%	100%	DP28	5%	100%
DR7	100%	100%	DQA1*05	6%	100%	DQ2	23%	100%	DR9	5%	100%
DR9	100%	100%				DQA1*05	8%	100%			
DR12	100%	86%				DR1	8%	100%			
DP11	81%	100%									
DQ5	77%	50%									
DP14	69%	100%									
DP17	65%	100%									
DPw5	65%	100%									
DR51	65%	50%									
DP10	62%	100%									
DP15	62%	100%									
DQA1*02	62%	100%									
DR103	62%	100%									
DP9	58%	100%									
DPA1*02	54%	100%									
DPA1*04	50%	100%									
DP13	50%	56%									
DPw1	38%	50%									
DPw6	38%	50%									
DP28	38%	33%									
DP18	35%	33%									
DPw3	35%	33%									
DR1	19%	100%									
DR10	19%	100%									
DQ4	19%	50%									
DQ8	15%	33%									
DQ9	15%	33%									
DQ7	15%	20%									
DP19	12%	100%									
DQA1*05	12%	100%									

Table 22. Individual laboratory results for Serum #1209-#1212 by NIH-Standard and NIH-Extended - class I

Investigator	**** Serum 1209 ****							**** Serum 1210 ****					**** Serum 1211****			**** Serum 1212 ****					Method				
	% POS	A3	A2				Other	% POS	B8	A26	A1	A2	Other	% POS				% POS	B57					Other	
Claas, F.H.J.	50	+						92		+	+		A11,A25,A3	0				0							STD
Fort, Marylise	12	+						40	+					NT				NT							STD
Thornton, Alycia	52	+	+					52	+	+	+	+		2				2							STD
Vasilescu, Rodica	90		+				B7,A30,A31,A33	92	+			+	B14,B18	8				10	+						STD
Watson, Narelle	30	+						39						4		weak A29		1							STD

STD = NIH standard

Investigator	**** Serum 1209 ****							**** Serum 1210****				**** Serum 1211 ****			**** Serum 1212 ****						Method			
	% POS	A3	A2	A29	A30	A33	A28	Other	% POS			Other	% POS	A29	A26	Other	% POS	A29	B49	B63		B51	B57	Other
Lardy, N.M.	57	+	+				+						13	+	+		22	+	+	+	+	+		EXT
Reed, Elaine F. PhD	48	+	+	+	+	+		U					21	+			22	+	+					EXT

Ext = NIH extended

U = undetermined

Table 23. Individual laboratory results for Serum #1209-#1212 by Antiglobulin, C1q, and Other - class I

Investigator	**** Serum 1209 ****							**** Serum 1210 ****							**** Serum 1211 ****						**** Serum 1212 ****						Method	
	% POS	A2	A28	A29	A3	A30	Other	% POS	A26	B8	A2	A34	A28	Other	% POS	A29	A31	A34	A30	Other	% POS	B49	B51	A29	B15	B61		Other
Hahn, Amy B. PhD		+			+		B62,B44,A34>		+	+	+	+		A11,B40,B60>		+	+	+	+			+	+	+		+	B62,A36,B63>	AHG
Vasilescu, Rodica	39	+	+	+		+	B40,B7,A31	89	+	+	+	+	+	A66,B14,B18	11	+						25	+	+		+		AHG

AHG = antiglobuline

Investigator	**** Serum 1209 ****							**** Serum 1210 ****							**** Serum 1211 ****						**** Serum 1212 ****						Method		
	% POS	A2	A29	A3	A30	A31	Other	% POS	A1	A2	A33	A36	A68	B8	Other	% POS	A29	A43			Other	% POS	A29	A43	B49	B51		B52	Other
Liu, Chang MD, Ph		+	+	+	+	+	A33,A68,A69>		+	+	+	+	+	+			+	+					+	+	+	+	+	B53,B57,B58>	C1q

Investigator	**** Serum 1209 ****							**** Serum 1210 ****							**** Serum 1211 ****						**** Serum 1212 ****						Method		
	% POS	A3	A2	A11	A30	A31	Other	% POS	A1	A2	A26	A3	A33	Other	% POS	A1	A11	A25	A26	A29	Other	% POS	A23	A24	A25	A26		A29	Other
Danish, Adel		+						NT							NT							NT						Other	
Liu, Chang MD, Ph	96							93							85							96						Other	
McCluskey, James	48							61							10							6						Other	
Reed, Elaine F. Ph	98	+	+	+	+	+	A33,A68,A69>	92	+	+	+	+	+	A66,A68,B18>	98	+	+	+	+	+	A66,A30,A31>	94	+	+	+	+	+	A66,A34,A30>	Other

Table 24. Individual laboratory results for Serum #1209 by Luminex - class I

		**** Serum 1209 ****																																																
Investigator	% POS	A2	A3	A30	A31	A33	A68	A69	A74	B27	B7	A29	A34	B13	B47	B60	B61	Cw7	B48	B81	B42	Cw6	A32	A25	A66	A36	A80	A11	B67	A24	B73	B55	B56	A2403	B2708	B8	A6602	B82	B41	B57	Other	Method								
Abu Amin, Noryati	Multi	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+			+				+	+	+															+	+	B78,B62,B49,B50 >	LMX						
Al-Attas, Rabab A. M	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B62,B49,B50 >	LMX				
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B*51:01	LMX			
Bengochea, Carrette	0																																														LMX			
Cecka, J. Michael P	84	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX			
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B8101,A1101,A1102 >	LMX		
Daniel, Dolly	22	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B40,B703,A19 >	LMX			
Danish, Adel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX			
Du, Keming	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX			
Dunckley, Heather	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B54,B65,B38,B59 >	LMX		
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B51,B54,B64,B65 >	LMX		
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Hamdi, Nuha	84	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Juarez, Fabiola	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B38	LMX		
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B*51:01,B*57:01,B54,B65>	LMX	
Pancoska, Carol Ph	52	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Permpikul, Vejbaesy	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B37	LMX		
Pule, Ziningi	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,Bw4,Bw6	LMX		
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
V.Brouard, M.Tonye	85	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B40,B8101,A1101 >	LMX		
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,A1101,A1102,A6601>	LMX	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B54,Cw2,Cw16	LMX
Xu, Ri	22	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B40,B703,B12C >	LMX		

Table 25. Individual laboratory results for Serum #1210 by Luminex - class I

**** Serum 1210 ****																																																										
Investigator	% POS	A2	A26	A33	A34	A68	A74	B18	B8	A31	A36	A29	A43	A80	B57	A1	B59	A3	A69	B54	B58	B64	B65	B51	B39	B73	B78	A66	B38	A11	B71	B75	Cw5	B52	A25	A1101	A6601	A6602	B46	A203	Other	Method																
Abu Amin, Noryati	Multi	+	+	+	+	+	+	+	+		+	+			+	+	+		+	+	+	+	+	+	+		+	+		+	+									+			B60,B61,B62,B49 >	LMX														
Al-Attas, Rabab A. M	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							+			B37	LMX												
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B7801,B3901,B*51:01	LMX											
Bengochea, Carrette	37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B14	LMX											
Cecka, J. Michael P	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX										
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B7801	LMX									
Daniel, Dolly	12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			A24,A10,A19,A28 >	LMX									
Danish, Adel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX								
Du, Keming	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX								
Dunckley, Heather	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B77,B37	LMX							
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B*51:01	LMX						
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			A24	LMX						
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX					
Hamdi, Nuha	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX					
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B77, B*51:01	LMX					
Juarez, Fabiola	37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX					
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX				
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX				
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			A24,B77,B37,Cw17	LMX			
Pancoska, Carol Ph	48	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX				
Permpikul, Vejbaesy	37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX				
Pule, Ziningi	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B14,Bw4,Bw6	LMX				
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX		
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX			
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B14	LMX		
V.Brouard, M.Tonye	85	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B7801,B3901	LMX			
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B3901	LMX		
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Cw17	LMX	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX
Xu, Ri	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B14,B5C,B8C,B7C >	LMX		

Table 26. Individual laboratory results for Serum #1211 by Luminex - class I

**** Serum 1211 ****																													
Investigator	% POS	A29	A43	A26	A74	A34	A30	A31	A33	A36	A1	A3	A80	A66	A25	A32	A68	A11	A69	A23	A6601	A6602	B44	B82	A1101	A1102	Other	Method	
Abu Amin, Noryati	Multi	+		+	+	+	+	+	+	+	+	+	+	+	+		+	+					+				B60,B61,B78,B62 >	LMX	
Al-Attas, Rabab A. M	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+							+	+						LMX	
Bengochea, Carrette	22	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX	
Cecka, J. Michael P	15	+	+	+		+	+																					LMX	
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+			+	+	+		+	+	+	+	+		+	+	B8201	LMX	
Daniel, Dolly	2	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+							+	+	A10,A19,A10C	LMX	
Danish, Adel		+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+								LMX	
Du, Keming	15	+	+	+	+	+	+	+	+	+	+		+	+														LMX	
Dunckley, Heather	81	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+						LMX	
Fort, Marylise	NT																											LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX	
Hamdi, Nuha	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+		A24	LMX	
Juarez, Fabiola	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX	
Lardy, N.M.		+	+	+	+				+																			LMX	
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+					+										LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+		B*13:01,A24,B13,B45>	LMX	
Pancoska, Carol Ph	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX	
Permpikul, Vejbaesy	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX	
Pule, Ziningi	21	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+									Bw4	LMX	
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX	
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX	
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX	
V.Brouard, M.Tonye	49	+	+	+	+	+	+	+	+	+	+	+			+	+	+		+		+	+		+	+	+		LMX	
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+			+	+	+		+	+	+	+	+		+	+	B8201	LMX	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+		B45	LMX	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+		B45	LMX	
Xu, Ri	2	+	+																								A1C,A10C	LMX	

Table 28. Individual laboratory results for Serum #1209-#1212 by ELISA and Flow Cytometry - class I

	**** Serum 1209 ****												**** Serum 1210 ****					**** Serum 1211 ****								**** Serum 1212 ****													
Investigator	% POS	A2	A29	A3	A33	A74	A80	B8	A25	A30	A31	A36	Other	% POS	A2	A29	A66	Other	% POS	A29	A3	A25	A26	A32	A33	A34	A66	Other	% POS	A23	A29	B62	A24	A25	A26	A31	A32	Other	Method
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+		A68,A69>		+	+	+	A1,A25>		+	+	+	+	+		+	+	A68,A69>		+	+	+	+	+	+		+	A34,A74>	Elisa
Juarez, Fabiola	85	+	+	+	+	+	+	+				+		92	+	+	+	A11	67	+	+				+				85	+	+	+				+		Cw14	Elisa

	**** Serum 1209 ****												**** Serum 1210 ****					**** Serum 1211 ****								**** Serum 1212 ****												
Investigator	% POS												Other	% POS				Other	% POS									Other	% POS								Other	Method
Eckels/CPMC,	94													96					99									99										FC

FC = Flow cytometry

Table 29. Individual laboratory results for Serum #1209-#1212 by various methods - class II

	**** Serum 1209 ****						**** Serum 1210 ****				**** Serum 1211 ****				**** Serum 1212 ****				
Investigator	% POS					Other	% POS			Other	% POS			Other	% POS			Other	Method
Reed, Elaine F. PhD	U						U				U				U				EXT

U = undetermined

	**** Serum 1209 ****						**** Serum 1210 ****				**** Serum 1211 ****				**** Serum 1212 ****				
Investigator	% POS	DQ2	DR15	DR16	DR7	Other	% POS			Other	% POS			Other	% POS			Other	Method
Liu, Chang MD, PhD		+	+	+	+		NT				NT				NT				C1q

	**** Serum 1209 ****						**** Serum 1210 ****				**** Serum 1211 ****				**** Serum 1212 ****					
Investigator	% POS	DQ2	DR15	DR16	DR7	DR9	Other	% POS			Other	% POS	DR7	DR9	Other	% POS			Other	Method
Liu, Chang MD, PhD	74							0				29				0				LMX-Phenotype Bead
Reed, Elaine F. PhD	87	+	+	+	+	+		0				20	+	+		0				LMX-PRA

Table 30. Individual laboratory results for Serum #1209 by Luminex - class II

		**** Serum 1209 ****																																			
Investigator	% POS	DQ2	DR15	DR16	DR7	DR9	DR12	DP11	DQ5	DP14	DP17	DPW5	DR51	DP10	DP15	DQA1*02	DR103	DP9	DPA1*02	DPA1*04	DP13	DPW1	DPW6	DP28	DP18	DPW3	DR1	DR10	DQ4	DQ8	DQ9	DQ7	Other	Method			
Abu Amin, Noryati	Multi	+	+	+	+	+	+	+	+								+										+	+						DR14	LMX		
Al-Attas, Rabab A. M	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																LMX	
Arnold, Paula PhD		+	+	+	+	+	+	+	+				+				+	+		+	+														LMX		
Bengochea, Carrette																																			LMX		
Cecka, J. Michael P	66	+	+	+	+	+	+	+							+																				LMX		
Chen, Dong-Feng P		+	+	+	+	+	+	+	+				+				+	+		+	+															LMX	
Daniel, Dolly	33	+	+	+	+	+	+				+	+	+	+			+			+	+									+	+			DQ1,DQ3,DPW4,DQ6 >	LMX		
Danish, Adel		+	+	+	+	+	+	+	+	+	+	+	+	+	+				+			+	+	+	+	+	+			+	+	+	+		LMX		
Du, Keming	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+			+	+	+	+	+	+								LMX		
Dunckley, Heather	82	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+								LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+								+			+															DQA1*02:01,DQB1*05:01	LMX	
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	DR4	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+																	LMX
Hamdi, Nuha	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+			+	+	+	+			LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+		+	+									LMX
McCluskey, James		+	+	+	+	+	+	+	+				+				+	+		+	+								+								LMX
Pancoska, Carol Ph	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+									LMX	
Permpikul, Vejbaesy	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								DR52,DQA1*04,DQA1*05	LMX	
Pule, Ziningi	39	+	+	+	+	+	+		+																			+	+							DR2,DR5,DQ3	LMX
Reed, Elaine F. PhD		+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									DQB1*05:01	LMX
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+			+				+	+	+	+	+	+			+	+	+	+	+		LMX	
Thornton, Alycia		+	+	+	+	+	+			+	+		+				+		+	+	+	+		+				+								DP19	LMX
V.Brouard, M.Tonye	69	+	+	+	+	+	+	+	+	+		+		+		+	+	+	+	+																	LMX
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									DQA1*05	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									DQA1*05	LMX
Xu, Ri	33	+	+	+	+	+	+			+	+						+			+	+	+		+												DP19	LMX

Table 31. Individual laboratory results for Serum #1210-#1212 by Luminex - class II

Investigator	**** Serum 1210 ****					**** Serum 1211 ****							**** Serum 1212 ****					Method	
	% POS	DP11	DQ2	DQA1*05	Other	% POS	DR7	DR9	DR53	DQ2	DQA1*05	DR1	Other	% POS	DPA1*04	DP28	DR9		Other
Abu Amin, Noryati	Multi					Multi	+	+		+				Multi					LMX
Al-Attas, Rabab A. M	0					Multi	+	+	+					0					LMX
Arnold, Paula PhD	0						+	+						0					LMX
Bengochea, Carrette	0					6	+	+				+		0					LMX
Cecka, J. Michael P	0					29	+	+						0					LMX
Chen, Dong-Feng P							+	+	+				weak DQ2						LMX
Daniel, Dolly	0					1	+	+	+					0					LMX
Danish, Adel		+					+	+								+	+		LMX
Du, Keming						3	+	+											LMX
Dunckley, Heather	2	+				25	+	+	+					0	+				LMX
Eckels/CPMC,							+	+											LMX
Fort, Marylise	NT					NT								NT					LMX
Hahn, Amy B. PhD							+	+	+	+									LMX
Hamdi, Nuha	0	+				23	+	+						0					LMX
Holdsworth, Rhonda							+	+	+	+					+				LMX
Liu, Chang MD, PhD							+	+											LMX
McCluskey, James	0						+	+	+	+				0					LMX
Pancoska, Carol Ph	0					6	+	+	+	+				0					LMX
Permpikul, Vejbaesy						6	+	+											LMX
Pule, Ziningi	0					4	+	+				+		0					LMX
Reed, Elaine F. PhD	0						+	+	+					0					LMX
Sacchi, Nicoletta	0						+	+						0					LMX
Thornton, Alycia	0						+	+	+					0					LMX
V.Brouard, M.Tonye	0					26	+	+						0					LMX
Vather/JHB,		+					+	+	+	+	+				+				LMX
Vather/Pinetown,			+	+			+	+	+		+				+				LMX
Xu, Ri						1	+												LMX

Table 32. Summary of the 555th Serum Exchange (Serum #1213-1216) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard												
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***			
5 typing Labs			5 typing Labs			4 typing Labs			4 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
B44	100%	98%	A11	100%	100%	B57	75%	100%	B13	100%	100%	
B45	80%	100%	B39	40%	25%	B49	50%	100%				
A2	20%	100%	A3	40%	22%	A25	25%	100%				
B50	20%	50%	A1	20%	100%	A26	25%	100%				
			A25	20%	100%	A33	25%	100%				
			A26	20%	100%	B27	25%	100%				
			A66	20%	100%	B44	25%	100%				
			B38	20%	100%	B51	25%	100%				
						B52	25%	100%				
						A28	25%	67%				
						Bw4	25%	50%				
						A2	25%	14%				

Method: NIH-Extended												
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***			
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
B44	100%	100%	A11	100%	100%	A32	100%	100%	B13	100%	100%	
B45	100%	100%	A66	100%	100%	B49	100%	100%				
A2	100%	94%	B38	100%	100%	B51	100%	100%				
A34	50%	100%	B39	100%	100%	B53	100%	100%				
A68	50%	100%	A36	50%	100%	B57	100%	100%				
B50	50%	100%	A24	50%	91%	B58	100%	100%				
B61	50%	100%	A28	50%	57%	A25	50%	100%				
B60	50%	67%				B13	50%	100%				
B49	50%	50%				B38	50%	100%				
						B44	50%	100%				
						B52	50%	100%				
						B63	50%	100%				
						B72	50%	100%				
						A24	50%	80%				
						B27	50%	67%				
						B37	50%	50%				

Table 33. Summary of the 555th Serum Exchange (Serum #1213-1216) by AHG, C1q, and Other - class I

Method: Antiglobulin												
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***			
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
B44	100%	100%	A11	100%	100%	A24	100%	90%	B13	100%	100%	
B45	100%	100%	A1	100%	95%	A23	67%	100%	A32	67%	62%	
B61	100%	100%	A28	67%	100%	A25	67%	100%	B47	33%	100%	
A2	100%	94%	A3	67%	100%	A32	67%	100%	B60	33%	100%	
B13	67%	100%	A68	67%	100%	Bw4	67%	93%	A24	33%	91%	
B49	67%	100%	B38	67%	100%	B13	33%	100%	B27	33%	83%	
B50	67%	100%	A24	33%	100%	B16	33%	100%	B18	33%	80%	
B60	67%	100%	A34	33%	100%	B27	33%	100%	B38	33%	80%	
A28	67%	60%	A36	33%	100%	B37	33%	100%	A23	33%	75%	
A68	33%	100%	A66	33%	100%	B49	33%	100%	B39	33%	75%	
B41	33%	100%	B18	33%	100%	B50	33%	100%	B61	33%	75%	
B47	33%	100%	B39	33%	100%	B51	33%	100%	B44	33%	38%	
B57	33%	100%	B42	33%	100%	B57	33%	100%	B41	33%	33%	
B58	33%	100%	B8	33%	100%	B62	33%	100%				
B7	33%	100%	BW6	33%	92%	B35	33%	83%				

Method: C1q												
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***			
1 typing Labs			1 typing Labs			1 typing Labs			1 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
no consensus			no consensus			no consensus			no consensus			

Method: Other												
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***			
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
B13	33%	100%	no antigens assigned			A23	33%	100%	B13	33%	100%	
B44	33%	100%				A24	33%	100%	B18	33%	100%	
B45	33%	100%				A25	33%	100%	B41	33%	100%	
B49	33%	100%				A32	33%	100%	B45	33%	100%	
B50	33%	100%				Bw4	33%	100%	B60	33%	100%	
B60	33%	100%							B61	33%	100%	
B61	33%	100%							B62	33%	100%	

Table 34. Summary of the 555th Serum Exchange (Serum #1213-1216) by Luminex - class I

Method: Luminex											
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***		
29 typing Labs			29 typing Labs			28 typing Labs			28 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A2	100%	100%	A25	100%	100%	A23	100%	100%	A32	100%	100%
A33	100%	100%	A26	100%	100%	A24	100%	100%	A74	100%	100%
A34	100%	100%	A29	100%	100%	A32	100%	100%	B13	100%	100%
A68	100%	100%	A32	100%	100%	B13	100%	100%	B18	100%	100%
A69	100%	100%	A33	100%	100%	B37	100%	100%	B35	100%	100%
B13	100%	100%	A69	100%	100%	B38	100%	100%	B37	100%	100%
B41	100%	100%	A74	100%	100%	B44	100%	100%	B38	100%	100%
B44	100%	100%	B18	100%	100%	B47	100%	100%	B41	100%	100%
B45	100%	100%	B35	100%	100%	B49	100%	100%	B44	100%	100%
B47	100%	100%	B37	100%	100%	B50	100%	100%	B45	100%	100%
B49	100%	100%	B55	100%	100%	B51	100%	100%	B49	100%	100%
B50	100%	100%	B8	100%	100%	B52	100%	100%	B50	100%	100%
B7	100%	75%	A1	97%	100%	B53	100%	100%	B53	100%	100%
B27	97%	100%	A24	97%	100%	B54	100%	100%	B8	100%	100%
B57	97%	100%	A3	97%	100%	B56	100%	100%	A34	100%	60%
B58	97%	100%	A30	97%	100%	B57	100%	100%	A25	96%	100%
B60	93%	100%	A31	97%	100%	B58	100%	100%	A3	96%	100%
B61	93%	100%	A34	97%	100%	B59	100%	100%	A33	96%	100%
B76	90%	100%	A36	97%	100%	B35	100%	89%	B59	96%	100%
B82	90%	100%	A43	97%	100%	B45	100%	83%	A29	96%	93%
A1	90%	93%	A68	97%	100%	B55	100%	71%	A26	93%	100%
B81	86%	83%	A80	97%	100%	B27	100%	64%	A30	93%	100%
A66	79%	50%	B38	97%	100%	A25	96%	100%	A43	93%	100%
B73	76%	100%	B41	97%	100%	B63	93%	100%	A68	93%	100%
B48	76%	75%	B49	97%	100%	B71	93%	100%	B47	93%	100%
B62	48%	100%	B54	97%	100%	B72	93%	100%	B51	93%	100%
B72	48%	100%	B67	97%	100%	B77	93%	100%	B52	93%	100%
A25	45%	100%	B39	93%	100%	B62	89%	100%	B62	93%	100%
A26	45%	100%	B42	93%	100%	B67	89%	100%	B71	93%	100%
A31	31%	100%	B51	93%	100%	B75	89%	100%	B72	93%	100%
A6602	31%	100%	B52	93%	100%	B78	89%	100%	B77	93%	100%
A29	28%	100%	B53	93%	100%	B18	86%	80%	B78	93%	100%
B2708	28%	100%	B56	93%	100%	B46	79%	67%	B75	93%	90%
B52	24%	100%	B59	93%	100%	B64	75%	100%	A31	89%	100%
A203	21%	100%	B71	93%	100%	B39	71%	100%	B39	89%	100%
A74	21%	100%	B58	90%	100%	B65	64%	100%	B48	89%	100%

Table 34. Summary of the 555th Serum Exchange (Serum #1213-1216) by Luminex

Method: Luminex - cont.											
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***		
29 typing Labs			29 typing Labs			29 typing Labs			29 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
Cw2	21%	100%	B62	90%	100%	B41	43%	100%	B60	89%	100%
A6601	17%	100%	B63	90%	100%	B8	36%	100%	B64	89%	100%
B8101	17%	100%	B65	90%	100%	Bw4	31%	100%	B76	89%	100%
			B72	90%	100%	A2403	21%	100%	A66	89%	92%
			B77	90%	100%	B2708	21%	100%	B61	86%	100%
			B57	90%	80%	B82	21%	100%	A69	79%	100%
			B75	90%	70%	B7801	18%	100%	A11	79%	78%
			A11	86%	100%				B65	75%	100%
			A23	86%	100%				B7	29%	100%
			A66	86%	100%				A6601	21%	100%
			B64	86%	100%				A6602	21%	100%
			B76	86%	100%				B54	21%	100%
			B27	72%	100%				B67	21%	100%
			B48	72%	100%				A80	18%	100%
			B78	72%	100%				B3901	18%	100%
			B50	72%	75%						
			Cw7	62%	100%						
			B73	59%	100%						
			Cw15	59%	100%						
			B44	55%	100%						
			B47	48%	100%						
			B82	45%	100%						
			A6601	24%	100%						
			A6602	24%	100%						
			A1101	21%	100%						
			A1102	21%	100%						
			A2403	21%	100%						
			B2708	21%	100%						

Table 35. Summary of the 555th Serum Exchange (Serum #1213-1216) by ELISA and Flow Cytometry - class I

Method: ELISA												
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***			
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
A2	100%	100%	A1	100%	100%	A23	100%	100%	A25	100%	100%	
A33	100%	100%	A11	100%	100%	A24	100%	100%	A29	100%	100%	
A34	100%	100%	A25	100%	100%	A25	100%	100%	A32	100%	100%	
A68	100%	100%	A26	100%	100%	A32	100%	100%	B13	100%	100%	
A69	100%	100%	A29	100%	100%	B13	100%	100%	B18	100%	100%	
B13	100%	100%	A3	100%	100%	B18	100%	100%	B35	100%	100%	
B27	100%	100%	A30	100%	100%	B35	100%	100%	B37	100%	100%	
B41	100%	100%	A31	100%	100%	B37	100%	100%	B38	100%	100%	
B44	100%	100%	A32	100%	100%	B38	100%	100%	B39	100%	100%	
B45	100%	100%	A33	100%	100%	B44	100%	100%	B41	100%	100%	
B47	100%	100%	A34	100%	100%	B45	100%	100%	B44	100%	100%	
B48	100%	100%	A36	100%	100%	B46	100%	100%	B45	100%	100%	
B49	100%	100%	A66	100%	100%	B47	100%	100%	B47	100%	100%	
B50	100%	100%	A68	100%	100%	B49	100%	100%	B48	100%	100%	
B57	100%	100%	A69	100%	100%	B50	100%	100%	B49	100%	100%	
B58	100%	100%	A74	100%	100%	B51	100%	100%	B50	100%	100%	
B60	100%	100%	A80	100%	100%	B52	100%	100%	B51	100%	100%	
B61	100%	100%	B18	100%	100%	B53	100%	100%	B52	100%	100%	
B7	100%	100%	B35	100%	100%	B54	100%	100%	B53	100%	100%	
B81	100%	100%	B37	100%	100%	B55	100%	100%	B59	100%	100%	
A1	50%	100%	B38	100%	100%	B56	100%	100%	B60	100%	100%	
B62	50%	100%	B39	100%	100%	B57	100%	100%	B61	100%	100%	
B72	50%	100%	B41	100%	100%	B58	100%	100%	B62	100%	100%	
A32	50%	50%	B42	100%	100%	B59	100%	100%	B72	100%	100%	
			B51	100%	100%	B62	100%	100%	B75	100%	100%	
			B52	100%	100%	B63	100%	100%	B78	100%	100%	
			B53	100%	100%	B71	100%	100%	B8	100%	100%	
			B54	100%	100%	B72	100%	100%	A26	50%	100%	

Method: Flow Cytometry												
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***			
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
no antigens assigned			no antigens assigned			no antigens assigned			no antigens assigned			

Table 36. Summary of the 555th Serum Exchange (Serum #1213-1216) by various methods- class II

Method: NIH-Extended											
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
undefined			undefined			undefined			undefined		

Method: C1q											
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no antigens assigned			no antigens assigned			no antigens assigned			no consensus		

Method: Flow cytometry											
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no antigens assigned			no consensus			no antigens assigned			no antigens assigned		

Method: Other											
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR4	50%	100%	Negative	100%	100%	DQ6	50%	100%	DR2	50%	100%
						DR13	50%	100%	DR7	50%	100%
									DR9	50%	100%

Table 37. Summary of the 555th Serum Exchange (Serum #1213-1216) by Luminex - class II

Method: Luminex											
*** Serum 1213 ***			*** Serum 1214 ***			*** Serum 1215 ***			*** Serum 1216 ***		
24 typing Labs			17 typing Labs			24 typing Labs			24 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR4	96%	100%	Negative	100%	100%	DR13	96%	83%	DR7	96%	100%
DR9	21%	100%				DQ6	96%	67%	DR9	96%	100%
DP11	21%	50%				DR12	83%	60%	DQ2	96%	47%
DR7	13%	100%				DQ9	67%	50%	DR11	92%	75%
DQ5	8%	100%				DQ8	62%	33%	DP28	88%	78%
DR53	8%	100%				DR4	54%	20%	DPw3	88%	67%
DQA1*01	4%	100%				DQA1*01	25%	100%	DP18	88%	56%
						DQA1*03	25%	100%	DPw2	83%	100%
						DR103	25%	100%	DP14	79%	100%
						DQ1	4%	100%	DP17	79%	100%
						DQ3	4%	100%	DP10	67%	100%
						DR1	4%	100%	DP20	67%	100%
						DR10	4%	100%	DP9	67%	100%
						DR14	4%	100%	DPw6	67%	100%
						DR15	4%	100%	DR52	63%	33%
						DR16	4%	100%	DPw4	58%	50%
						DR18	4%	100%	DR12	46%	100%
						DR7	4%	100%	DP402	38%	100%
									DQA1*02	33%	100%
									DPA1*01	17%	50%
									DPA1*04	13%	67%
									DQA1*05	13%	20%
									DR10	8%	100%
									DR13	8%	100%
									DPA1*02	8%	33%
									DP19	4%	100%
									DPA1*03	4%	100%
									DPA1*05	4%	100%
									DQ1	4%	100%
									DQ4	4%	100%
									DQ5	4%	100%
									DQ6	4%	100%
									DQA1*03	4%	100%
									DQA1*04	4%	100%
									DR1	4%	100%

Table 38. Individual laboratory results for Serum #1213-1216 by NIH-Standard and NIH-Extended - class I

Investigator	**** Serum 1213 ****				**** Serum 1214 ****				**** Serum 1215 ****						**** Serum 1216 ****			Method				
	% POS	B44	B45	Other	% POS	A11	B39	A3	Other	% POS	B57	B49							Other	% POS	B13	Other
Claas, F.H.J.	33	+	+		29	+			A25,A26	46	+	+						B44,B51,B52,A25 >	8	+		STD
Fort, Marylise	12	+	+		30	+	+		B38	NT									NT			STD
Thornton, Alycia	23	+	+		21	+	+	+	A66	19	+							A2,A33,A28	4	+		STD
Vasilescu, Rodica	30	+	+	A2	10	+			A1	40	+	+						B27	5	+		STD
Watson, Narelle	37	+		B50	23	+		+		34								BW4	9	+		STD

Investigator	**** Serum 1213 ****				**** Serum 1214 ****				**** Serum 1215 ****								**** Serum 1216 ****			Method				
	% POS	B44	B45	A2	Other	% POS	A11	A66	B38	B39	Other	% POS	A32	B49	B51	B53	B57	B58	A25		Other	% POS	B13	Other
Lardy, N.M.	60	+	+	+	B60,B49,B50,B61	63	+	+	+	+	A36,A24,A28	65	+	+	+	+	+	+	+	A24,B13,B44,B27 >	7	+		EXT
Reed, Elaine F. PhD	49	+	+	+	A34,A68	30	+	+	+	+		47	+	+	+	+	+	+		B52,B72	8	+		EXT

Table 39. Individual laboratory results for Serum #1213-1216 by Antiglobulin, C1q, and Other - class I

Investigator	**** Serum 1213 ****											**** Serum 1214 ****							**** Serum 1215 ****						**** Serum 1216 ****						
	% POS	B44	B45	B61	A2	B13	B49	B50	B60	A28	Other	% POS	A11	A1	A28	A3	A68	B38	Other	% POS	A24	A23	A25	A32	Bw4	Other	% POS	B13	A32	Other	Method
Cecka, J. Michael P	72	+	+	+	+	+	+	+	+	+	B47,B7>	92	+	+	+	+	+		A66,B51>	78	+	+	+	+	+	B62,B18>	15	+	+	B44,B41	AHG
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+			+	+	+	+	+		Bw6		+	+	+	+	+	B50		+	+	A24,B60>	AHG
Vasilescu, Rodica	25	+	+	+	+				+			36	+	+			+	+	B39	60	+					B49,B27>	7	+			AHG

Investigator	**** Serum 1213 ****										**** Serum 1214 ****										**** Serum 1215 ****							**** Serum 1216 ****					
	% POS	A2	A68	A69	B13	B41	B44	B45	B47	Other	% POS	A1	A11	A24	A25	A26	A29	A3	A30	Other	% POS	A23	A24	A25	A32	B13	B27	B37	Other	% POS	B13	Other	Method
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	B60,B61>		+	+	+	+	+	+	+	+	A66,B51>		+	+	+	+	+	+	+	B49,B27>		+		C1q

Investigator	**** Serum 1213 ****										**** Serum 1214 ****										**** Serum 1215 ****						**** Serum 1216 ****					
	% POS	B13	B44	B45	B49	B50				% POS	% POS									% POS	% POS	A23	A24	A25	A32	Bw4	Other	% POS	B13	B18	Other	Method
Liu, Chang MD, PhD	84									98										96								96				LMX-PRA
McCluskey, James	33																			50								3				CDC-PRA
Reed, Elaine F. PhD	74	+	+	+	+	+				B60,B61	U									98	+	+	+	+	+			44	+	+	B41,B60>	LMX-PRA

U = undefined

Table 40. Individual laboratory results for Serum #1213 by Luminex - class I

		**** Serum 1213 ****																																																							
Investigator	% POS	A2	A33	A34	A68	A69	B13	B41	B44	B45	B47	B49	B50	B7	B27	B57	B58	B60	B61	B76	B82	A1	B81	A66	B73	B48	B62	B72	A25	A26	A31	A6602	A29	B2708	B52	A203	A74	Cw2	Other	Method																	
Abu Amin, Noryati	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		+		+		+					+														B53,B55,B63,B77 >	LMX												
Al-Attas, Rabab A. M	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+			+																Cw1,Cw12,Cw15	LMX									
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+								+														B8101,B8201	LMX								
Bengochea, Carrette	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	+																						B40,B15	LMX								
Cecka, J. Michael P	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+									+															LMX							
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B8101,A6601,B8201	LMX							
Daniel, Dolly	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+									+															B40,B703,A28,B12 >	LMX						
Danish, Adel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+																								LMX						
Du, Keming	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX							
Dunckley, Heather	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX						
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX					
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX					
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX					
Hamdi, Nuha	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX					
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX				
Juarez, Fabiola	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX					
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX				
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX				
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX				
Pancoska, Carol Ph	57	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX				
Permpikul, Vejbaesy	46	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX				
Pule, Ziningi	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX				
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX			
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX			
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX			
V.Brouard, M.Tonye	82	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX			
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX			
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX

Table 41. Individual laboratory results for Serum #1214 by Luminex (part 1) - class I

		**** Serum 1214 ****																																																											
Investigator	% POS	A25	A26	A29	A32	A33	A69	A74	B18	B35	B37	B55	B8	A1	A24	A3	A30	A31	A34	A36	A43	A68	A80	B38	B41	B49	B54	B67	B39	B42	B51	B52	B53	B56	B59	B71	B58	B62	B63	B65	B72	B77	B57	B75	A11																
Abu Amin, Noryati	Multi	+	+	+	+	+	+	+	+	+	+	+	+						+			+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Al-Attas, Rabab A. M	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									
Bengochea, Carrette	59	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										
Cecka, J. Michael P	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									
Daniel, Dolly	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																														+							
Danish, Adel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Du, Keming	57	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Dunckley, Heather	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Hamdi, Nuha	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Juarez, Fabiola	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pancoska, Carol Ph	75	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Permpikul, Vejbaesy	72	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pule, Ziningi	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
V.Brouard, M.Tonye	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Table 42. Individual laboratory results for Serum #1214 by Luminex (part 2) - class I

		**** Serum 1214 ****																							
Investigator	% POS	A23	A66	B64	B76	B27	B48	B78	B50	Cw7	B73	Cw15	B44	B47	B82	A6601	A6602	A1101	A1102	A2403	B2708	Other	Method		
Abu Amin, Noryati	Multi		+	+		+	+	+			+		+	+									B60,B61,B13,B7 >	LMX	
Al-Attas, Rabab A. M	Multi	+	+	+	+	+	+	+	+	+	+	+	+										B*44:02	LMX	
Arnold, Paula PhD		+	+	+	+	+	+	+								+	+	+	+	+	+		B7801,B3901	LMX	
Bengochea, Carrette	59	+	+					+	+														B15,B14	LMX	
Cecka, J. Michael P	98		+	+	+		+	+	+																LMX
Chen, Dong-Feng P		+		+	+	+	+		+	+	+	+	+	+		+	+	+	+	+	+		B7801,B8201	LMX	
Daniel, Dolly	32		+		+											+	+	+	+	+			A10,A19,A28,B8C >	LMX	
Danish, Adel		+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX
Du, Keming	57	+	+	+																					LMX
Dunckley, Heather	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B13	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+				+	+	+	+	+					+			LMX
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+								B13	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX
Hamdi, Nuha	98	+	+	+	+	+	+	+	+	+	+	+		+	+										LMX
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+								B13,B45	LMX	
Juarez, Fabiola	63	+	+	+	+	+			+	+															LMX
Lardy, N.M.		+	+	+	+																				LMX
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+		+	+		+										LMX
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+								B45,B*13:02,C*03:02	LMX	
Pancoska, Carol Ph	75	+	+	+	+	+	+	+	+	+	+	+	+		+										LMX
Permpikul, Vejbaesy	72	+	+	+	+	+	+	+	+	+	+	+		+											LMX
Pule, Ziningi	39		+																				B15,B14,Bw4,Bw6	LMX	
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+		+	+										LMX
Sacchi, Nicoletta		+	+	+	+																				LMX
Thornton, Alycia		+	+	+	+			+																	LMX
V.Brouard, M.Tonye	98	+			+	+	+		+	+	+	+	+	+		+	+	+	+	+	+		B14,B7801,B8201,B3901	LMX	
Vasilescu, Rodica		+		+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+		B8201	LMX	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+								B13,B45,Cw10	LMX	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+		+										LMX

Table 43. Individual laboratory results for Serum #1215 by Luminex - class I

		**** Serum 1215 ****																																													
Investigator	% POS	A23	A24	A32	B13	B37	B38	B44	B47	B49	B50	B51	B52	B53	B54	B56	B57	B58	B59	B35	B45	B55	B27	A25	B63	B71	B72	B77	B62	B67	B75	B78	B18	B46	B64	B39	B65	B41	B8	Bw4	Other	Method					
Abu Amin, Noryati	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,B60,B61,B48 >	LMX		
Al-Attas, Rabab A. M	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,B7801,B2705	LMX		
Bengochea, Carrette	44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,B82,B14	LMX		
Cecka, J. Michael P	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,B2708,B7801,I	LMX		
Daniel, Dolly	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A9,B15,B70,B21 >	LMX		
Danish, Adel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Du, Keming	37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Dunckley, Heather	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,B2708	LMX		
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B2708	LMX	
Fort, Marylise	NT																																												LMX		
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Hamdi, Nuha	93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B76,B42	LMX	
Juarez, Fabiola	37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82	LMX	
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B76,B42	LMX	
Pancoska, Carol Ph	52	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Permpikul, Vejbaesy	51	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Pule, Ziningi	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,B82,B14,Bw6	LMX	
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82	LMX	
V.Brouard, M.Tonye	88	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B14,A2403,B2708,B7	LMX	
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,B2708,B7801,I	LMX	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,B76,B42	LMX	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX

Table 44. Individual laboratory results for Serum #1216 by Luminex - class I

**** Serum 1216 ****																																																		
Investigator	% POS	A32	A74	B13	B18	B35	B37	B38	B41	B44	B45	B49	B50	B53	B8	A34	A25	A3	A33	B59	A29	A26	A30	A43	A68	B47	B51	B52	B62	B71	B72	B77	B78	B75	A31	B39	B48	B60	B64	B76	A66	Other								
Abu Amin, Noryati	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,B61,B27,B82 >					
Al-Attas, Rabab A. I	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,A69,A80 >				
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A69,B65,B7801 >				
Bengochea, Carrette	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B40,B15,B7 >				
Cecka, J. Michael P	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,B65				
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A69,B65,B7801 >				
Daniel, Dolly		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B70,A10,B21 >				
Danish, Adel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,A69,B65			
Du, Keming	56	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,A69,B65			
Dunckley, Heather	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,B54,A69 >			
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,A69,B65 >		
Fort, Marylise	NT																																																	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,A69,B65	
Hamdi, Nuha	95%	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,A69,B65	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,B82,B54 >	
Juarez, Fabiola	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,B65	
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,B7	
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,A69,B65	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,B82,B7 >	
Pancoska, Carol Ph	70	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,B67,A69 >	
Permpikul, Vejbaes	73	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,A11,A24,B61 >	
Pule, Ziningi	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B15,B7,A69 >	
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,A69,B65	
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61	
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,B7,A69	
V.Brouard, M.Tonye	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B54,A69,B14 >	
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A69,B65,A1101 >	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,B67,A69 >	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,B82,B7 >

Table 45. Individual laboratory results for Serum #1213 - #1216 by ELISA and Flow Cytometry - class I

		**** Serum 1213 ****																															
Investigator	% POS	A2	A33	A34	A68	A69	B13	B27	B41	B44	B45	B47	B48	B49	B50	B57	B58	B60	B61	B7	B81											Other	Method
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											A32	Elisa
Juarez, Fabiola	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											B62,A1,B72	Elisa
Eckels/CPMC,	94																																FC

		**** Serum 1214 ****																																							
Investigator	% POS	A1	A11	A25	A26	A29	A3	A30	A31	A32	A33	A34	A36	A66	A68	A69	A74	A80	B18	B35	B37	B38	B39	B41	B42	B51	B52	B63	B54	B55	B59	B63	B64	B65	B67	B71	B75	B8	Other	Method	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B48,B49>	Elisa
Juarez, Fabiola	61	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B57	Elisa
Eckels/CPMC,	99																																								FC

		**** Serum 1215 ****																																							
Investigator	% POS	A23	A24	A25	A32	B13	B18	B35	B37	B38	B44	B45	B46	B47	B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B62	B63	B71	B72	B75	B78	B27	Other	Method							
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	BW4	Elisa	
Juarez, Fabiola	68	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B67,B64,B65,B39	Elisa	
Eckels/CPMC,	86																																								FC

		**** Serum 1216 ****																																							
Investigator	% POS	A25	A29	A32	B13	B18	B35	B37	B38	B39	B41	B44	B45	B47	B48	B49	B50	B51	B52	B53	B59	B60	B61	B62	B72	B75	B78	B8	Other	Method											
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Elisa	
Juarez, Fabiola	68	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,B54,A26>	Elisa	
Eckels/CPMC,	99																																								FC

FC = Flow cytometry

Table 46. Individual laboratory results for Serum #1213 - #1216 by various methods - class II

	**** Serum 1213 ****			**** Serum 1214 ****			**** Serum 1215 ****			**** Serum 1216 ****				
Investigator	% POS		Other	% POS		Other	% POS		Other	% POS	DR7		Other	Method
Reed, Elaine F. PhD	U			U			U			U				Ext
Liu, Chang MD, PhD											+			C1q
Eckels/CPMC	11			0			24			96				FC

U = undefined

	**** Serum 1213 ****			**** Serum 1214 ****			**** Serum 1215 ****			**** Serum 1216 ****						
Investigator	% POS	DR4	Other	% POS		Other	% POS	DQ6	DR13	Other	% POS	DQ2	DR7	DR9	Other	Method
Liu, Chang MD, PhD	17			0			20				77					LMX-PRA
Reed, Elaine F. PhD	13	+		0			27	+	+		43	+	+	+		LMX-PRA

Table 47. Individual laboratory results for Serum #1213 - #1215 by Luminex - class II

Investigator	**** Serum 1213 ****						**** Serum 1214 ****			**** Serum 1215 ****										Method	
	% POS	DR4	DR9	DP11	DR7	Other	% POS		Other	% POS	DR13	DQ6	DR12	DQ9	DQ8	DR4	DQA1*01	DQA1*03	DR103		Other
Abu Amin, Noryati	Multi	+					0			Multi	+	+	+	+	+				+	DR1,DR7,DR10,DR14 >	LMX
Al-Attas, Rabab A. M	Multi	+					0			Multi	+	+	+	+	+	+				DRB1*12:01,DRB1*04:02	LMX
Arnold, Paula PhD		+					0				+	+	+							DRB1*12:01,DQA1*03:02	LMX
Bengochea, Carrette	0						0			0											LMX
Chen, Dong-Feng P		+									+	+	+	+	+				+	DRB4*04:02	LMX
Daniel, Dolly	1	+	+		+		1			1	+	+	+			+	+			DRB1*04:02,DQB1*06:02, DQB1*06:03,DQB1*06:04	LMX
Danish, Adel		+		+			0				+	+	+	+	+						LMX
Du, Keming	6	+		+						12	+	+	+	+	+	+					LMX
Dunckley, Heather	34	+					0			79	+	+	+	+	+	+	+	+			LMX
Eckels/CPMC,		+									+	+	+	+	+	+					LMX
Hahn, Amy B. PhD		+									+	+		+	+						LMX
Hamdi, Nuha	17	+		+			0			20	+	+	+	+	+	+					LMX
Holdsworth, Rhonda		+					0				+	+	+	+	+	+			+	DRB1*12:01,DRB1*04:02	LMX
Liu, Chang MD, PhD		+									+	+	+					+			LMX
McCluskey, James		+					0				+	+		+	+				+	DRB1*12:01,DRB1*04:02, DQA1*01:03,DQA1*03:02	LMX
Pancoska, Carol Ph	7	+					0			18	+	+	+	+	+	+					LMX
Permpikul, Vejbaesy	8	+		+						11	+	+	+				+	+			LMX
Pule, Ziningi	9	+	+		+		0			17	+	+	+			+				DQ1,DQ3	LMX
Reed, Elaine F. PhD		+					0				+	+		+	+					DRB1*12:01	LMX
Sacchi, Nicoletta		+					0				+	+	+								LMX
Thornton, Alycia		+	+		+		0				+	+	+			+					LMX
V.Brouard, M.Tonye	17	+					0			17	+	+	+	+		+	+	+			LMX
Vather/JHB,		+	+	+		DR53,DQ5,DQA1*01					+	+	+	+	+	+	+	+	+		LMX
Vather/Pinetown,		+	+			DR53,DQ5	0				+	+	+	+	+	+	+	+	+		LMX

Table 48. Individual laboratory results for Serum #1216 by ELISA and Luminex - class II

**** Serum 1216 ****																										
Investigator	% POS	DR7	DR9	DQ2	DR11	DP28	DPw3	DP18	DPw2	DP14	DP17	DP10	DP20	DP9	DPw6	DR52	DPw4	DR12	DP402	DQA1*02	DPA1*01	DPA1*04	DQA1*05	Other	Method	
Abu Amin, Noryati	Multi	+	+	+	+														+							LMX
Al-Attas, Rabab A. M	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+					LMX
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+			+					DPB1*04:02	LMX
Bengochea, Carretto	28	+	+	+	+	+	+	+	+	+	+								+	+		+				LMX
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+					LMX
Daniel, Dolly	9	+	+	+	+	+	+	+	+	+	+														DPA1*01:03,DPB1*04:02	LMX
Danish, Adel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX
Du, Keming	11	+	+	+		+	+	+	+													+	+	+	DPA1*02	LMX
Dunckley, Heather	88	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							DPA1*05	LMX
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+						LMX
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+									LMX
Hamdi, Nuha	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				DRB3*03:01,DRB3*02:02	LMX
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+									LMX
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+					DR10,DPA1*02,DQA1*05:01	LMX
Pancoska, Carol Ph	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
Permpikul, Vejbaesy																										LMX
Pule, Ziningi	29	+	+	+	+														+						DR13,DQ1	LMX
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+					LMX
Sacchi, Nicoletta		+	+	+	+	+	+	+	+				+													LMX
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+															LMX
V.Brouard, M.Tonye	46	+	+	+	+	+	+			+	+	+		+	+	+			+	+	+	+			DR1,DR4,DR8,DR13 >	LMX
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	DR10,DQA1*04	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+		LMX