

REPORT OF THE 405th CELL EXCHANGE

JUNE 29, 2018

B-cell Lines	551-552
Cells	1617-1620
Sera	1245-1248

B-cell Line Exchange #276

The results for B-cell Line Exchange #276 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We would like to express our appreciation to **Leiden University Medical Centre, Leiden** and to **Welsh Blood Service, Pontyclun Wales** for providing us with the valuable reference cells examined in our studies.

We would also like to acknowledge and thank the labs performing NGS typing for sharing their results and encourage other NGS labs to share their findings. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Ter-551. The consensus type for this sample from a donor of unknown ethnicity is DRB1*07:01-DRB1*13:11-DRB3*02:02-DRB4*01:01-DQA1*02:01-DQA1*05:05-DQB1*02:02-DQB1*03:01-DPA1*01:03-DPB1*02:01-DPB1*03:01/A*24:02-A*32:01-B*14:01-B*18:01-C*07:01-C*08:02. One likely association present in this cell is DRB1*07:01-DRB4*01:01-DQA1*02:01-DQB1*02:02, observed in the workshop cell IHW9428 (same Ter 518, Ter 386, and Ter 316). DRB1*13:11-DRB3*02:02-DQA1*05:05-DQB1*03:01 is the other likely association present. The association of DRB1*13:11 with DQB1*03:01, is observed in Caucasians and Hispanics, with respective frequencies of 0.00006 and 0.00046.

This cell is 1083933x, a DRB1*13:11:01 reference cell. It was examined previously in the B-cell line Exchange as Ter 396 (2007) and Ter 321 (2003) and in the International HLA DNA Exchange as DNA #501 (2006). We congratulate Rao for correctly identifying this sample as being previously typed. In this present study, DRB1*13:11 was reported by 100% of labs, with 12 labs reporting DRB1*13:11:01. DRB1*07:01 (100%) was assigned as the second DRB1 type, with 9 labs reporting DRB1*07:01:01. DRB3*02:02 and DRB4*01:01 were also assigned in complete consensus, with DRB3*02:02:01 and DRB4*01:01:01 each assigned by 7 labs. Class I types were reported as A*24:02, A*32:01, B*14:01, B*18:01, C*07:01, and C*08:02. Each were reported in complete consensus, with 9 labs assigning B*14:01:01, B*18:01:01, C*07:01:01, and C*08:02:01, and 8 labs assigning A*24:02:01 and A*32:01:01.

References:

1. Anholts JD, Verduyn W, Parlevliet A, et al. Irregular polymerase chain reaction-sequence-specific oligonucleotide hybridization patterns reveal seven new HLA-DRB1 alleles related to DR2, DR3, DR6, DR8, and DR11. Implications for sequence-specific priming. Hum Immunol 1995;42:15-22.

Ter-552. The consensus type for this sample from a donor of unknown ethnicity is DRB1*13:10-DRB1*14:05-DRB3*01:01-DRB3*02:02-DQA1*01:03-DQA1*01:04-DQB1*05:03-DQB1*06:03-DPA1*01:03-DPB1*02:01/A*03:01-A*11:01-B*40:06-B*55:01-C*01:02-C*12:02. This cell is the sibling of ARA, a reference cell for DRB1*13:10 (1). Combining family studies and data from previous exchanges, the haplotypes in this cell are determined to be A*11:01-B*40:06-C*12:02-DRB1*13:10-DRB3*01:01-DQA1*01:03-DQB1*06:03-DPA1*01:03-DPB1*02:01 and A*03:01-B*55:01-C*01:02-DRB1*14:05-DRB3*02:02-DQA1*01:04-DQB1*05:03-DPA1*01:03-DPB1*02:01.

This cell was typed previously as Ter 343 (2004) and Ter 220 (1998). In this present study, DRB1*13:10 was reported by 97% of labs reporting at high resolution. DRB1*14:05 (100%) was assigned as the second DRB1 typed, with 11 labs assigning DRB1*14:05:01. Two subtypes of DRB3 were reported in this cell, DRB3*01:01 (100%) and DRB3*02:02 (100%). DRB3*01:01:02 and DRB3*02:02:01 were each assigned by 7 labs. Class I types for this cell were reported as A*03:01, A*11:01, B*40:06, B*55:01, C*01:02, and C*12:02. All but A*03:01 (96%) were assigned in complete consensus. A*03:01:01, A*11:01:01, and B*55:01:01 were each assigned by 8 labs. B*40:06:01, C*01:02:01, and C*12:02:02 were each assigned by 9 labs.

Table 1: Summary of the 276th B-cell Line Exchange

Ter-551																							
DNA Typing - class II	35 labs High; 32 labs low-DRB1			22 labs High; 24 labs Low-DRB3/4/5			25 labs High; 27 labs Low-DQA1			35 High Labs; 30 labs Low-DQB1			19 High Labs; 14 labs Low-DPA1			30 High Labs; 19 labs Low-DPB1							
		%(n)			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)						
	DRB1*07:01:01:01	8 (3)		DRB3*02:02:01:02	9 (2)		DQA1*02:01:01:01	12(3)		DQB1*02:02:01	29(10)		DPA1*01:03:01:01	11(2)		DPB1*02:01:02	30(9)						
	DRB1*07:01:01	17(6)		DRB3*02:02:01	23(5)		DQA1*02:01:01	16(4)		DQB1*02:01P	3 (1)		DPA1*01:03:01	21(4)		DPB1*02:01:02G	3 (1)						
	DRB1*07:01:01G	8 (3)		DRB3*02:02:01G	4 (1)		DQA1*02:01	72(18)		DQB1*02:02	68(24)		DPA1*01:03:01G	5 (1)		DPB1*02:01P	3 (1)						
	DRB1*07:01P	3 (1)		DRB3*02:02	64(14)		DQA1*02	100(27)		DQB1*02	100(30)		DPA1*01:03P	5 (1)		DPB1*02:01	63(19)						
	DRB1*07:01	63(22)		DRB3*02	79(19)								DPA1*01:03	58(11)		DPB1*02(DP201)	42(8)						
	DRB1*07	100(32)		DRB3*PRESENT	21(5)								DPA1*01	100(14)		DPB1*02	58(11)						
	36 labs High; 32 labs low-DRB1			22 labs High; 24 labs Low-DRB3/4/5			25 labs High; 27 labs Low-DQA1			35 High Labs; 30 labs Low-DQB1			18 High Labs; 16 labs Low-DPA1			30 High Labs; 19 labs Low-DPB1							
		%(n)			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)						
	DRB1*13:11:01	33(12)		DRB4*01:01:01:01	9 (2)		DQA1*05:05:01:01	12(3)		DQB1*03:01:01:03	8 (3)					DPB1*03:01:01	30(9)						
	DRB1*13:11	67(24)		DRB4*01:01:01	23(5)		DQA1*05:05:01	16(4)		DQB1*03:01:01	20(7)					DPB1*03:01:01G	3 (1)						
	DRB1*13	100(32)		DRB4*01:01P	4 (1)		DQA1*05:05	72(18)		DQB1*03:01	66(23)					DPB1*03:01P	3 (1)						
				DRB4*01:01	64(14)		DQA1*05	100(27)		DQB1*03:01:01G	6 (2)					DPB1*03:01	63(19)						
				DRB4*01	79(19)					DQB1*03(DQ7)	3 (1)					DPB1*03	100(19)						
				DRB4*PRESENT	21(5)					DQB1*03	97(29)												
DNA Typing - class I	23 labs High; 25 labs low- A			24 labs High; 25 labs low- B			23 labs High; 24 labs low- C			23 labs High; 25 labs low- A			23 labs High; 25 labs low- B			23 labs High; 24 labs low- C							
		%(n)			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)						
	A*24:02:01:01	9 (2)		B*14:01:01:01	12(3)		C*07:01:01:01	9 (2)		A*32:01:01:01	17(4)		B*18:01:01:02	4 (1)		C*08:02:01:02	13(3)						
	A*24:02:01	26(6)		B*14:01:01	25(6)		C*07:01:01:16	4 (1)		A*32:01:01	17(4)		B*18:01:01	35(8)		C*08:02:01	26(6)						
	A*24:02:01G	4 (1)		B*14:01	63(15)		C*07:01:01	26(6)		A*32:01:01G	4 (1)		B*18:01:01G	4 (1)		C*08:02	61(14)						
	A*24:02P	4 (1)		B*14(B64)	4 (1)		C*07:01:01G	4 (1)		A*32:01P	4 (1)		B*18:01P	4 (1)		C*08	100(24)						
	A*24:02	57(13)		B*14	96(24)		C*07:01P	4 (1)		A*32:01	52(12)		B*18:01	52(12)									
	A*24	100(25)					C*07:01	52(12)		A*32:37	4 (1)		B*18	100(25)									
							C*07	100(24)		A*32	100(25)												

Table 2: Summary of the 276th B-cell Line Exchange

Ter-552

DNA Typing - class II		22 labs High; 24 labs Low-DRB3/4/5		25 labs High; 27 labs Low-DQA1		35 High Labs; 30 labs Low-DQB1		19 High Labs; 14 labs Low-DPA1		30 High Labs; 19 labs Low-DPB1		
DNA Typing - class II	35 labs High; 32 labs low-DRB1	%(n)	22 labs High; 24 labs Low-DRB3/4/5	%(n)	25 labs High; 27 labs Low-DQA1	%(n)	35 High Labs; 30 labs Low-DQB1	%(n)	19 High Labs; 14 labs Low-DPA1	%(n)	30 High Labs; 19 labs Low-DPB1	%(n)
	DRB1*13:10	97(34)	DRB3*01:01:02:01	5 (1)	DQA1*01:03:01:02	8 (2)	DQB1*05:03:01:02	6 (2)	DPA1*01:03:01:01	21(4)	DPB1*02:01:02	30(9)
	DRB1*13:06	3 (1)	DRB3*01:01:02	27(6)	DQA1*01:03:01	20(5)	DQB1*05:03:01	20(7)	DPA1*01:03:01	11(2)	DPB1*02:01:02G	3 (1)
	DRB1*13	100(32)	DRB3*01:01P	5 (1)	DQA1*01:03	72(18)	DQB1*05:03:01G	6 (2)	DPA1*01:03:01G	5 (1)	DPB1*02:01	67(20)
			DRB3*01:01	63(14)	DQA1*01	100(27)	DQB1*05:03P	3 (1)	DPA1*01:03P	5 (1)	DPB1*02(DP201)	42(8)
			DRB3*01	79(19)			DQB1*05:03	65(23)	DPA1*01:03	58(11)	DPB1*02	58(11)
			DRB3*PRESENT	21(5)			DQB1*05	100(30)	DPA1*01	100(14)		
	DNA Typing - class I	36 labs High; 32 labs low-DRB1	%(n)	22 labs High; 22 labs Low-DRB3/4/5	%(n)	25 labs High-DQA1	%(n)	35 High Labs; 30 labs Low-DQB1	%(n)			
DRB1*14:05:01		30(11)	DRB3*02:02:01:01	14(3)	DQA1*01:04:01:01	8 (2)	DQB1*06:03:01:01	3 (1)				
DRB1*14:05:02		3 (1)	DRB3*02:02:01	18(4)	DQA1*01:04:01:02	4 (1)	DQB1*06:03:01	25(9)				
DRB1*14:05		67(24)	DRB3*02:02P	4 (1)	DQA1*01:04:01	16(4)	DQB1*06:03:01G	6 (2)				
DRB1*14		100(32)	DRB3*02:02	64(14)	DQA1*01:01P	4 (1)	DQB1*06:03	63(22)				
			DRB3*02	86(19)	DQA1*01:04	68(17)	DQB1*06:08	3 (1)				
			DRB3*PRESENT	14(3)			DQB1*06	100(30)				
DNA Typing - class I		23 labs High; 25 labs low- A	%(n)	24 labs High; 25 labs low- B	%(n)	23 labs High; 25 labs low- C	%(n)					
	A*03:01:01:01	17(4)	B*40:06:01:02	21(5)	C*01:02:01:01	4 (1)						
	A*03:01:01	17(4)	B*40:06:01	17(4)	C*01:02:01	35(8)						
	A*03:01	61(14)	B*40:06	62(15)	C*01:02:01G	4 (1)						
	A*03:21N	4 (1)	B*40(B61)	4 (1)	C*01:02P	4 (1)						
	A*03	100(25)	B*40	96(24)	C*01:02	52(12)						
					C*01	100(25)						
	DNA Typing - class I	23 labs High; 25 labs low- A	%(n)	23 labs High; 25 labs low- B	%(n)	23 labs High; 25 labs low- C	%(n)					
A*11:01:01:01		17(4)	B*55:01:01	35(8)	C*12:02:02:01	13(3)						
A*11:01:01		17(4)	B*55:01:01G	4 (1)	C*12:02:02	26(6)						
A*11:01:01G		4 (1)	B*55:01P	4 (1)	C*12:02	61(14)						
A*11:01P		4 (1)	B*55:01	57(13)	C*12	100(25)						
A*11:01		57(13)	B*55	100(25)								
A*11		100(25)										

Table 3a: Individual laboratory results for B-cell #551-Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
87	*07	*13	3*02	4*01	*02	*05	*02	*03	*01	*01	*02(DP201)	*03	RT-PCR	DPB1*104
206	*07	*13	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*03		
278	*07	*13	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*03		
725	*07	*13	3*PRESENT	4*PRESENT	*02	*05	*02	*03					SSP SSO	
731	*07	*13			*02	*05	*02	*03					SSP SSO SBT	
735	*07	*13	3*02	4*01	*02	*05	*02	*03	*01	*01	*02(DP201)	*03	SSP SSO SBT	
747	*07	*13	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*03	SSP SSO NGS	
771	*07	*13			*02	*05	*02	*03					SSP SSO	
774	*07	*13	3*02	4*01	*02	*05	*02	*03			*02(DP201)	*03	SSP SSO	
779	*07	*13	3*02	4*01	*02	*05	*02	*03	*01		*02(DP201)	*03	SSP SSO	
792	*07	*13	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*03	SSO SBT	
793	*07	*13	3*02	4*01	*02	*05	*02	*03			*02(DP201)	*03	SSP	
794	*07	*13	3*02	4*01	*02	*05	*02	*03	*01		*02	*03	SSP SSO NGS	
2400	*07	*13	3*02	4*01	*02	*05	*02	*03			*02	*03	SSP SSO SBT	
2847	*07	*13											SSO	
3519	*07	*13			*02	*05	*02	*03	*01		*02(DP201)	*03	SSP NGS	
3632	*07	*13	3*02	4*01	*02	*05	*02	*03	*01		*02	*03	SSP SSO	
3966													SSP	
4079	*07	*13	3*02	4*01	*02	*05	*02	*03			*02	*03	SSP SSO	
4251	*07	*13	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*03	SSO NGS	
4492	*07	*13	3*PRESENT	4*PRESENT	*02	*05	*02	*03	*01		*02	*03	SSP SSO NGS	
5130	*07	*13	3*02	4*01	*02	*05	*02	*03			*02	*03	SSP SSO NGS	
5214	*07	*13	3*02	4*01	*02	*05	*02	*03 (DQ7)	*01	*01	*02(DP201)	*03	SSO	
5219	*07	*13			*02	*05	*02	*03					SSO	
5451	*07	*13	3*02	4*01	*02	*05	*02	*03					SSP SSO SBT	
5462	*07	*13	3*02	4*01	*02	*05	*02	*03	*01		*02(DP201)	*03	SSP SSO	
5642	*07	*13	3*PRESENT	4*PRESENT			*02	*03					SSP	
6649	*07	*13	3*PRESENT	4*PRESENT									SSO	
8001	*07	*13	3*PRESENT	4*PRESENT	*02	*05	*02	*03					SSP SSO	
8029	*07	*13			*02	*05	*02	*03					NGS	
8042	*07	*13					*02	*03						
8043	*07	*13			*02	*05	*02	*03					SSP SSO	
8068	*07	*13	3*02	4*01			*02	*03					SSO	

Table 3b: Individual laboratory results for B-cell #551-Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*07:01	*13:11					*02:02	*03:01			*02:01	*03:01	SSO SBT	
278	*07:01	*13:11	3*02:02	4*01:01	*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*03:01		
731	*07:01:01G	*13:11:01					*02:02:01	*03:01:01G					SSP SSO SBT	
735	*07:01P	*13:11	3*02:02:01G	4*01:01P	*02:01	*05:05	*02:01P	*03:01	*01:03P	*01:03P	*02:01	*03:01	SSP SSO SBT	DPA1*01:13
747	*07:01:01:01	*13:11:01	3*02:02:01	4*01:01:01	*02:01:01:01	*05:05:01:01	*02:02:01	*03:01:01	*01:03:01	*01:03:01:03	*02:01:02	*03:01:01	SSP SSO NGS	DPB1*124:01
762	*07:01:01:01	*13:11:01	3*02:02:01:02	4*01:01:01	*02:01:01	*05:05:01	*02:02:01	*03:01:01:03	*01:03:01:01	*01:03:01:03	*02:01:02	*03:01:01	SSP SSO NGS	
771	*07:01	*13:11					*02:02	*03:01					SSP SSO	
774	*07:01	*13:11	3*02:02	4*01:01	*02:01	*05:05	*02:02	*03:01			*02:01	*03:01	SSP SSO	DQB1*03:93 DQB1*03:92 DRB1*07:31 DRB1*07:33 DQB1*03:73
779		*13:11			*02:01	*05:05	*02:02	*03:01	*01:03		*02:01	*03:01	SSP SSO	
792	*07:01	*13:11					*02:02	*03:01			*02:01	*03:01	SSO SBT	
793					*02:01	*05:05					*02:01	*03:01	SSP	
794	*07:01:01	*13:11:01	3*02:02:01	4*01:01:01	*02:01	*05:05	*02:02:01	*03:01:01	*01:03		*02:01:02	*03:01:01	SSP SSO NGS RT-PCR	
2344	*07:01:01:01	*13:11:01	3*02:02:01:02	4*01:01:01:01	*02:01:01:01	*05:05:01:01	*02:02:01	*03:01:01:03	*01:03:01:01	*01:03:01:03	*02:01:02	*03:01:01	NGS	DRB1*07:01:01:02 DQA1*05:05:01:02
2400	*07:01	*13:11			*02:01	*05:05	*02:02	*03:01			*02:01:02G	*03:01:01G	SSP SSO SBT	
3135	*07:01	*13:11	3*02:02	4*01:01	*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*03:01		DQA1*05:09
3224	*07:01:01G	*13:11	NT	NT	*02:01	*05:05	*02:02	*03:01:01G	01:03:01G	*01:03:01G	*02:01	*03:01	SSP SBT	DPB1*640:01 DPB1*617:01
3511	*07:01	*13:11	3*02:02	4*01:01	*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*03:01	SSP SSO	
3519	*07:01	*13:11	3*02:02	4*01:01	*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*03:01	SSP NGS	DRB4*03:01N
3632	*07:01	*13:11	3*02:02	4*01:01	*02:01	*05:05	*02:02	*03:01	*01:03		*02:01	*03:01	SSP SSO	
3753	*07:01:01	*13:11:01	3*02:02:01	4*01:01:01	*02:01:01	*05:05:01	*02:02:01	*03:01:01	*01:03:01	*01:03:01	*02:01:02	*03:01:01	NGS	
3966	*07:01	*13:11	3*02:02	4*01:01			*02:02	*03:01					SSP	
4079	*07:01	*13:11	3*02:02	4*01:01	*02:01	*05:05	*02:02	*03:01			*02:01	*03:01	SSP SSO	
4251	*07:01	*13:11	3*02:02	4*01:01	*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*03:01	SSO NGS	
4337	*07:01	*13:11					*02:02	*03:01			*02:01	*03:01	SBT NGS	
4492	*07:01:01	*13:11:01	3*02:02	4*01:01	*02:01:01	*05:05:01	*02:02:01	*03:01:01	*01:03	*01:03	*02:01:02	*03:01:01	SSP SSO NGS	DPA1*01:13
5130	*07:01	*13:11	3*02:02	4*01:01	*02:01	*05:05	*02:02	*03:01			*02:01	*03:01	SSP SSO NGS	
5133	*07:01:01	*13:11:01	3*02:02:01	4*01:01:01:01	*02:01:01:01	*05:05:01:01	*02:02:01	*03:01:01:03	*01:03:01		*02:01:02	*03:01:01	NGS	
5451	*07:01:01	*13:11:01											SSP SSO SBT	

Table 3b: Individual laboratory results for B-cell #551-Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
														DPB1*352:01 DPB1*414:01 DPB1*461:01 DPB1*617:01 DPB1*640:01 DPB1*104:01 DPB1*124:01 DPB1*678:01 DPB1*669:01 DPB1*675:01
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT			*02:01P	*03:01P	SSP SSO
5488	*07:01:01	*13:11:01	3*02:02:01	4*01:01:01	*02:01:01	*05:05:01	*02:02:01	*03:01:01	*01:03:01			*02:01:02	*03:01:01	SSO NGS
5642	*07:01	*13:11					*02:02	*03:01						SSP
8001	*07:01	*13:11	3*02:02	4*01:01			*02:02	*03:01				*02:01	*03:01	SSP SSO
8021	*07:01	*13:11	3*02:02	4*01:01	*02:01	*05:05	*02:02	*03:01	*01:03			*02:01	*03:01	SSO NGS
8029	*07:01:01G	*13:11:01					*02:02:01	*03:01:01						NGS
8043	*07:01	*13:11			*02:01	*05:05	*02:02	*03:01						SSP SSO
8070	*07:01	*13:11					*02:02	*03:01						SBT
8086	*07:01	*13:11			*02:01	*05:05	*02:02	*03:01	*01:03	*01:03		*02:01	*03:01	SSO SBT
9916	*07:01	*13:11:01	3*02:02	4*01:01			*02:02	*03:01:01				*02:01:02	*03:01:01	SSP SBT

Table 4: Individual laboratory results for B-cell #551-Class II

Serology									
CTR	DRB1		DRB3/4/5		DQB1		Others		
910	DR7	DR14	DR52	DR53			DQ2	DQ7	

Table 5: Individual laboratory results for B-cell #551-Class I

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
87	*24	*32	*14	*18	*07	*08							RT-PCR	
206	*24	*32	*14	*18	*07	*08								
230							*24:02	*32:01	*14:01	*18:01	*07:01	*08:02	SSO SBT	
278	*24	*32	*14	*18	*07	*08	*24:02	*32:37	*14:01	*18:01	*07:01	*08:02		
725	*24	*32	*14	*18	*07	*08							SSP SSO	
731	*24	*32	*14	*18	*07	*08							SSP SSO SBT	
735	*24	*32	*14	*18	*07	*08	*24:02P	*32:01P	*14:01	*18:01P	*07:01P	*08:02	SSP SSO SBT	
747	*24	*32	*14	*18	*07	*08	*24:02:01	*32:01:01:01	*14:01:01	*18:01:01	*07:01:01:01	*08:02:01:02	SSP SSO NGS	
774	*24	*32	*14	*18	*07	*08							SSP SSO	
779	*24	*32	*14	*18	*07	*08			*14:01				SSP SSO	
792	*24	*32	*14	*18	*07	*08	*24:02	*32:01	*14:01	*18:01	*07:01	*08:02	SSO SBT	A*24:02:01:02L
793	*24	*32	*14	*18	*07	*08							SSP	
794	*24	*32	*14	*18	*07	*08	*24:02:01	*32:01:01	*14:01:01	*18:01:01	*07:01:01	*08:02:01	SSP SSO NGS	
2344							*24:02:01:01	*32:01:01:01	*14:01:01	*18:01:01:02	*07:01:01:01	*08:02:01:02	RT-PCR	
2400	*24	*32	*14	*18	*07	*08	*24:02	*32:01	*14:01	*18:01	*07:01	*08:02	NGS	
2847	*24	*32	*14	*18	*07	*08							SSP SSO SBT	
3135							*24:02	*32:01	*14:01	*18:01	*07:01	*08:02	SSO	C*07:06 C*07:18
3224							*24:02:01G	*32:01:01G	*14:01	*18:01:01G	*07:01:01G	*08:02	SSP SBT	
3511							*24:02	*32:01	*14:01	*18:01	*07:01	*08:02	SSP SSO	
3519	*24	*32	*14	*18	*07	*08	*24:02	*32:01	*14:01	*18:01	*07:01	*08:02	SSP NGS	
3753							*24:02:01	*32:01:01	*14:01:01	*18:01:01	*07:01:01	*08:02:01	NGS	
3966	*24	*32	*14	*18	*07	*08							SSP	
4079													SSP SSO	
4251	*24	*32	*14	*18	*07	*08	*24:02	*32:01	*14:01	*18:01	*07:01	*08:02	SSO NGS	
4337							*24:02	*32:01	*14:01	*18:01	*07:01	*08:02	SBT NGS	
4492	*24	*32	*14	*18	*07	*08	*24:02:01:01	*32:01:01:01	*14:01:01:01	*18:01:01	*07:01:01	*08:02:01	SSP SSO NGS	
5130	*24	*32	*14	*18	*07	*08	*24:02	*32:01	*14:01	*18:01	*07:01	*08:02	SSP SSO NGS	
5133							*24:02:01	*32:01:01:01	*14:01:01:01	*18:01:01	*07:01:01:16	*08:02:01:02	NGS	
5214	*24	*32	*14	*18	*07	*08							SSO	
5219	*24	*32	(B64)	*18	*07	*08							SSO	
5462	*24	*32	*14	*18	*07	*08	NT	NT	NT	NT	NT	NT	SSP SSO	
5488							*24:02:01	*32:01:01	*14:01:01	*18:01:01	*07:01:01	*08:02:01	SSO NGS	
8021							*24:02	*32:01	*14:01	*18:01	*07:01	*08:02	SSO NGS	
8029	*24	*32	*14	*18			*24:02:01	*32:01:01	*14:01:01	*18:01:01	*07:01:01	*08:02:01	NGS	
8042	*24	*32	*14	*18	*07	*08								
8068	*24	*32	*14	*18	*07	*08							SSO	
8086							*24:02	*32:01	*14:01	*18:01	*07:01	*08:02	SSO SBT	
9916							*24:02	*32:01	*14:01:01:01	*18:01:01	*07:01:01	*08:02:01	SSP SBT	A*24:353

Table 6a: Individual laboratory results for B-cell #552-Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
87	*13	*14	3*01	3*02	*01	*01	*05	*06	*01	*01	*02(DP201)	*02(DP201)	RT-PCR	
206	*13	*14	3*01	3*02	*01	*01	*05	*06	*01	*01	*02			
278	*13	*14	3*01	3*02	*01	*01	*05	*06	*01	*01	*02	*02		
725	*13	*14	3*PRESENT		*01		*05	*06					SSP SSO	
731	*13	*14			*01	*01	*05	*06					SSP SSO SBT	
735	*13	*14	3*01	3*02	*01	*01	*05	*06	*01	*01	*02(DP201)	*02(DP201)	SSP SSO SBT	
747	*13	*14	3*01	3*02	*01	*01	*05	*06	*01	*01	*02	*02	SSP SSO NGS	
771	*13	*14			*01		*05	*06					SSP SSO	
774	*13	*14	3*01	3*02	*01	*01	*05	*06			*02(DP201)		SSP SSO	
779	*13	*14	3*01	3*02	*01	*01	*05	*06	*01		*02(DP201)		SSP SSO	
792	*13	*14	3*01	3*02	*01	*01	*05	*06	*01	*01	*02	*02	SSO SBT	
793	*13	*14	3*01	3*02	*01	*01	*05	*06			*02(DP201)		SSP	
794	*13	*14	3*01	3*02	*01		*05	*06	*01		*02		SSP SSO NGS RT-PCR	
2400	*13	*14	3*01	3*02	*01	*01	*05	*06			*02		SSP SSO SBT	
2847	*13	*14											SSO	
3519	*13	*14			*01		*05	*06	*01		*02(DP201)		SSP NGS	
3632	*13	*14	3*01	3*02	*01	*01	*05	*06	*01		*02		SSP SSO	
3966													SSP	
4079	*13	*14	3*01	3*02	*01	*01	*05	*06			*02	*02	SSP SSO	
4251	*13	*14	3*01	3*02	*01	*01	*05	*06	*01	*01	*02	*02	SSO NGS	
4492	*13	*14	3*PRESENT	3*PRESENT	*01		*05	*06	*01		*02		SSP SSO NGS	
5130	*13	*14	3*01	3*02	*01	*01	*05	*06			*02	*02	SSP SSO NGS	
5214	*13	*14	3*01	3*02	*01	*01	*05	*06	*01	*01	*02(DP201)		SSO	
5219	*13	*14			*01	*01	*05	*06					SSO	
5451	*13	*14	3*01	3*02	*01	*01	*05	*06					SSP SSO SBT	
5462	*13	*14	3*01	3*02	*01	*01	*05	*06	*01		*02(DP201)		SSP SSO	
5642	*13	*14	3*PRESENT				*05	*06					SSP	
6649	*13	*14	3*PRESENT	3*PRESENT									SSO	
8001	*13	*14	3*PRESENT	3*PRESENT	*01		*05	*06					SSP SSO	
8029	*13	*14			*01	*01	*05	*06					NGS	
8042	*13	*14					*05	*06						
8043	*13	*14			*01	*01	*05	*06					SSP SSO	
8068	*13	*14	3*01	3*02			*05	*06					SSO	

Table 6b: Individual laboratory results for B-cell #552-Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*13:10	*14:05					*05:03	*06:03			*02:01	*02:01	SSO SBT	
278	*13:10	*14:05	3*01:01	3*02:02	*01:03	*01:04	*05:03	*06:03	*01:03	*01:03	*02:01	*02:01		
731	*13:10	*14:05:01					*05:03:01G	*06:03:01G					SSP SSO SBT	DQB1*05:66 DQB1*06:28
735	*13:10	*14:05	3*01:01P	3*02:02P	*01:03	*01:01P	*05:03P	*06:03	*01:03P	*01:03P	*02:01	*02:01	SSP SSO SBT	DPA1*01:13
747	*13:10	*14:05:01	3*01:01:02	3*02:02:01:01	*01:03:01	*01:04:01:01	*05:03:01	*06:03:01	*01:03:01:01	*01:03:01:01	*02:01:02	*02:01:02	SSP SSO NGS	
762	*13:10	*14:05:02	3*01:01:02	3*02:02:01:01	*01:03:01	*01:04:01	*05:03:01:02	*06:03:01	*01:03:01:01		*02:01:02		SSP SSO NGS	
771	*13:10	*14:05					*05:03	*06:03					SSP SSO	
774	*13:10	*14:05	3*01:01	3*02:02	*01:03	*01:04	*05:03	*06:03			*02:01		SSP SSO	DRB3*01:16 DRB3*01:17 DRB3*01:19 DRB3*02:28 DRB3*02:29N DRB3*02:31 DQB1*05:67 DQB1*06:154
779		*14:05			*01:03	*01:04	*05:03	*06:03	*01:03		*02:01		SSP SSO	
792	*13:10	*14:05					*05:03	*06:03			*02:01	*02:01	SSO SBT	
793					*01:03	*01:04					*02:01		SSP	
794	*13:10	*14:05:01	3*01:01:02	3*02:02:01	*01:03	*01:04	*05:03:01	*06:03:01	*01:03		*02:01:02		SSP SSO NGS RT-PCR	
2344	*13:10	*14:05:01	3*01:01:02:01	3*02:02:01:01	*01:03:01:02	*01:04:01:01	*05:03:01:02	*06:03:01	*01:03:01:01	*01:03:01:01	*02:01:02	*02:01:02	NGS	DRB3*01:01:02:02 DRB3*02:02:01:02 DQA1*01:04:01:02
2400	*13:10	*14:05			*01:03	*01:04	*05:03	*06:03			*02:01:02G		SSP SSO SBT	
3135	*13:10	*14:05	3*01:01	3*02:02	*01:03	*01:04	*05:03	*06:03	*01:03	*01:03	*02:01	*02:01		DQA1*01:01 DQA1*01:05
3224	*13:06	*14:05	NT	NT	*01:03	*01:04	*05:03:01G	*06:03:01G	*01:03:01G	*01:03:01G	*02:01	*02:01	SSP SBT	DPB1*163:01 DPB1*297:01 DPB1*366:01 DPB1*367:01 DPB1*381:01 DPB1*444:01 DPB1*457:01 DPB1*469:01 DPB1*501:01 DPB1*502:01 DPB1*511:01 DPB1*528:01 DPB1*537:01 DPB1*551:01N DPB1*557:01
3511	*13:10	*14:05	3*01:01	3*02:02	*01:03	*01:04	*05:03	*06:03	*01:03	*01:03	*02:01	*02:01	SSP SSO	
3519	*13:10	*14:05	3*01:01	3*02:02	*01:03	*01:04	*05:03	*06:03	*01:03	*01:03	*02:01		SSP NGS	
3632	*13:10	*14:05	3*01:01	3*02:02	*01:03	*01:04	*05:03	*06:03	*01:03		*02:01		SSP SSO	
3753	*13:10	*14:05:01	3*01:01:02	3*02:02:01	*01:03:01	*01:04:01	*05:03:01	*06:03:01	*01:03:01	*01:03:01	*02:01:02	*02:01:02	NGS	
3966	*13:10	*14:05	3*01:01	3*02:02			*05:03	*06:03					SSP	
4079	*13:10	*14:05	3*01:01	3*02:02	*01:03	*01:04	*05:03	*06:03			*02:01	*02:01	SSP SSO	
4251	*13:10	*14:05	3*01:01	3*02:02	*01:03	*01:04	*05:03	*06:03	*01:03	*01:03	*02:01	*02:01	SSO NGS	
4337	*13:10	*14:05					*05:03	*06:03			*02:01	*02:01	SBT NGS	
4492	*13:10	*14:05:01	3*01:01	3*02:02	*01:03:01	*01:04:01	*05:03:01	*06:03:01	*01:03	*01:03	*02:01:02	*02:01:02	SSP SSO NGS	DPA1*01:13
5130	*13:10	*14:05	3*01:01	3*02:02	*01:03	*01:04	*05:03	*06:03			*02:01	*02:01	SSP SSO NGS	DRB1*13:170 DRB1*14:44
5133	*13:10	*14:05:01	3*01:01:02	3*02:02:01	*01:03:01:02	*01:04:01:02	*05:03:01	*06:03:01:01	*01:03:01:01		*02:01:02		NGS	
5451	*13:10	*14:05:01											SSP SSO SBT	

Table 6b: Individual laboratory results for B-cell #552-Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
														DPB1*678:01 DPB1*641:01 DPB1*681:01 DPB1*685:01 DPB1*692:01 DPB1*430:01 DPB1*432:01 DPB1*433:01 DPB1*441:01 DPB1*444:01 DPB1*452:01 DPB1*457:01 DPB1*467:01 DPB1*469:01 DPB1*501:01 DPB1*502:01 DPB1*510:01 DPB1*511:01 DPB1*513:01 DPB1*528:01 DPB1*537:01 DPB1*551:01N DPB1*557:01 DPB1*595:01+
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT			*02:01	SSP SSO	
5488	*13:10	*14:05:01	3*01:01:02	3*02:02:01	*01:03:01	*01:04:01	*05:03:01	*06:03:01	*01:03:01			*02:01:02	SSO NGS	
5642	*13:10	*14:05					*05:03	*06:03					SSP	
8001	*13:10	*14:05	3*01:01	3*02:02			*05:03	*06:03				*02:01	SSP SSO	
8021	*13:10	*14:05	3*01:01	3*02:02	*01:03	*01:04	*05:03	*06:03	*01:03			*02:01	SSO NGS	
8029	*13:10	*14:05:01					*05:03:01	*06:03:01					NGS	
8043	*13:10	*14:05			*01:03	*01:04	*05:03	*06:03					SSP SSO	
8070	*13:10	*14:05					*05:03	*06:08					SBT	
8086	*13:10	*14:05			*01:03	*01:04	*05:03	*06:03	*01:03	*01:03	*02:01	*02:01	SSO SBT	
9916	*13:10	*14:05:01	3*01:01	3*02:02			*05:03	*06:03:01				*02:01:02	SSP SBT	

Table 7: Individual laboratory results for B-cell #552-Class II

Serology									
CTR	DRB1		DRB3/4/5		DQB1		Others		
910	DR18	DR14	DR52				DQ1	DQ4	DR9, DR53

Table 8: Individual laboratory results for B-cell #552-Class I

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
87	*03	*11	*40	*55	*01	*12							RT-PCR	
206	*03	*11	*40	*55	*01	*12								
230							*03:01	*11:01	*40:06	*55:01	*01:02	*12:02	SSO SBT	
278	*03	*11	*40	*55	*01	*12	*03:01	*11:01	*40:06	*55:01	*01:02	*12:02		
725	*03	*11	*40	*55	*01	*12							SSP SSO	
731	*03	*11	*40	*55	*01	*12							SSP SSO SBT	
735	*03	*11	*40	*55	*01	*12	*03:01	*11:01P	*40:06	*55:01P	*01:02P	*12:02	SSP SSO SBT	
747	*03	*11	*40	*55	*01	*12	*03:01:01:01	*11:01:01:01	*40:06:01:02	*55:01:01	*01:02:01	*12:02:02	SSP SSO NGS	
774	*03	*11	*40	*55	*01	*12							SSP SSO	
779	*03	*11	*40	*55	*01	*12			*40:06				SSP SSO	B*40:04
792	*03	*11	*40	*55	*01	*12	*03:01	*11:01	*40:06	*55:01	*01:02	*12:02	SSO SBT	A*03:01:01:02N
793	*03	*11	*40	*55	*01	*12							SSP	
794	*03	*11	*40	*55	*01	*12	*03:01:01	*11:01:01	*40:06:01	*55:01:01	*01:02:01	*12:02:02	SSP SSO NGS	
2344							*03:01:01:01	*11:01:01:01	*40:06:01:02	*55:01:01	*01:02:01	*12:02:02:01	RT-PCR	
2400	*03	*11	*40	*55	*01	*12	*03:01	*11:01	*40:06	*55:01	*01:02	*12:02	NGS	
2847	*03	*11	*40	*55	*01	*12							SSP SSO SBT	
3135							*03:01	*11:01	*40:06	*55:01	*01:02	*12:02	SSO	
3224							*03:01	*11:01:01G	*40:06	*55:01:01G	*01:02:01G	*12:02	SSP SBT	
3511							*03:01	*11:01	*40:06	*55:01	*01:02	*12:02	SSP SSO	
3519	*03	*11	*40	*55	*01	*12	*03:01	*11:01	*40:06	*55:01	*01:02	*12:02	SSP NGS	
3753							*03:01:01	*11:01:01	*40:06:01	*55:01:01	*01:02:01	*12:02:02	SSP NGS	
3966	*03	*11	*40	*55	*01	*12							NGS	
4079													SSP	
4251	*03	*11	*40	*55	*01	*12	*03:01	*11:01	*40:06	*55:01	*01:02	*12:02	SSP SSO	
4337							*03:01	*11:01	*40:06	*55:01	*01:02	*12:02	SSO NGS	
4492	*03	*11	*40	*55	*01	*12	*03:01:01:01	*11:01:01:01	*40:06:01:02	*55:01:01	*01:02:01	*12:02:02:01	SBT NGS	
5130	*03	*11	*40	*55	*01	*12	*03:01	*11:01	*40:06	*55:01	*01:02	*12:02	SSP SSO NGS	
5133							*03:01:01:01	*11:01:01:01	*40:06:01:02	*55:01:01	*01:02:01:01	*12:02:02:01	SSP SSO NGS	A*03:12 A*11:199
5214	*03	*11	*40 (B61)	*55	*01	*12							NGS	
5219	*03	*11	*40	*55	*01	*12							SSO	
5462	*03	*11	*40	*55	*01	*12	NT	NT	NT	NT	NT	NT	SSO	
5488							*03:01:01	*11:01:01	*40:06:01	*55:01:01	*01:02:01	*12:02:02	SSP SSO	
8021							*03:01	*11:01	*40:06	*55:01	*01:02	*12:02	SSO NGS	
8029	*03	*11	*40	*55	*01	*12	03:21N	*11:01:01	*40:06:01	*55:01:01	*01:02:01	*12:02:02	SSO NGS	
8042	*03	*11	*40	*55	*01	*12							NGS	
8068	*03	*11	*40	*55	*01	*12							SSO	
8086							*03:01	*11:01	*40:06	*55:01	*01:02	*12:02	SSO SBT	
9916							*03:01:01	*11:01	*40:06:01:02	*55:01	*01:02:01	*12:02:02	SSP SBT	

CELL EXCHANGE #405

The results for Cell Exchange #405 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. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Cell 1617. The reported consensus type for this sample from a Hispanic donor is A*03:01(A3)-A*66:01(A66)-B*07:02(B7)-B*49:01(B49)-C*07:01(Cw7)-C*07:02. A*03:01-B*07:02-C*07:02 is one likely association present in this cell. It is the 3rd most common association observed in Hispanics, with HF=0.01981. The other association likely present is A*66:01-B*49:01-C*07:01, with HF=0.00025, in Hispanics.

A*03:01, A*66:01, B*07:02, B*49:01, C*07:01, and C*07:02 were each assigned by 100% of labs reporting at high resolution. A*03:01:01:01, A*66:01:01:01, B*07:02:01:01, B*49:01:01, C*07:01:01, and C*07:02:01 were each reported by 4 labs. A3 (100%), A66 (83%), B7 (100%), B49 (100%), and Cw7 (42%) were reported by serology.

Cell 1618. The reported consensus type for this sample from a Caucasian donor is A*24:02(A24)-A*25:01(A25)-B*07:02(B7)-B*14:02(B14)-C*07:02(Cw7)-C*08:02(Cw8). Likely associations present in this cell are A*25:01-B*07:02-C*07:02 and A*24:02-B*14:02-C*08:02, with respective HF=0.00086 and 0.00114, in Caucasians.

A*24:02, A*25:01, B*07:02, B*14:02, C*07:02, and C*08:02 were each assigned in complete consensus, with 4 labs assigning A*24:02:01, A*25:01:01, B*07:02:01:01, B*14:02:01:01, C*07:02:01:03, and C*08:02:01:01. A24 (100%), A25 (100%), B7 (100%), B14 (65%) (67%), Cw7 (42%) and Cw8 (42%) were assigned by serology.

Cell 1619. The reported consensus type for this sample from an African American donor is A*01:01(A1)-A*34:02(A34)-B*08:01(B8)-B*81:01(B81)-C*07:01(Cw7)-C*18:01. This cell is the parent of a previous exchange cell, cell 1585 (same as cells 1550 and 1527). Parent and child share the A*34:02-B*81:01-C*18:01 haplotype present in this cell. The other haplotype present is A*01:01-B*08:01-C*07:01.

This cell has been examined previously as cells 1549 (2015), 1525 (2014), and 1481 (2013). In this present retyping, A*01:01, A*34:02, B*08:01, B*81:01, C*07:01, and C*18:01 were well typed by 100% of labs reporting at high resolution. The serological types were reported as A1 (100%), A34 (82%), B8 (100%), B81 (82%), and Cw7 (36%). Two labs assigned B7 instead of B81.

Cell 1620. The reported consensus type for this sample from a donor of mixed African American and Hispanic heritage is A*02:01(A2)-A*36:01(A36)-B*53:01(B53)-B*58:01(B58)-C*03:02(Cw3)-C*04:01(Cw4). One likely association present in this cell is A*02:01-B*58:01-C*03:02, observed in Hispanics with HF=0.00102. The other likely association present is A*36:01-B*53:01-C*04:01, the 4th most common association observed in African Americans, with HF=0.01476.

A*02:01, A*36:01, B*53:01, B*58:01, C*03:02, and C*04:01 were each assigned in complete consensus by labs reporting at high resolution. A2 (91%), A36 (82%), B53 (91%), Cw3 (18%) and Cw4 (36%) were the assigned serological types.

Table 9. Summary of the 405th Cell Exchange (Cell #1617-1620)

DNA typing

Cell 1617	
19 low/14 high labs - A	%(n)
A*03:01:01:01	29(4)
A*03:01:01G	7 (1)
A*03:01	64(9)
A*03	100(19)
19 low/14 high labs - A	%(n)
A*66:01:01:01	29(4)
A*66:01:01	7 (1)
A*66:01	64(9)
A*66	100(19)
19 low/14 high labs - B	%(n)
B*07:02:01:01	29(4)
B*07:02:01G	14(2)
B*07:02	57(8)
B*07	100(19)
19 low/14 high labs - B	%(n)
B*49:01:01	29(4)
B*49:01:01G	7 (1)
B*49:01	64(9)
B*49	100(19)
17 low/14 high Labs - C	%(n)
C*07:01:01:01	14(2)
C*07:01:01	14(2)
C*07:01:01G	14(2)
C*07:01	57(8)
C*07	100(17)
14 high Labs - C	%(n)
C*07:02:01:03	21(3)
C*07:02:01	7 (1)
C*07:02:01G	14(2)
C*07:02	57(8)

Cell 1618	
19 low/14 high labs - A	%(n)
A*24:02:01:01	21(3)
A*24:02:01	7 (1)
A*24:02:01G	7 (1)
A*24:02P	7 (1)
A*24:02	57(8)
A*24	100(19)
19 low/14 high labs - A	%(n)
A*25:01:01:01	14(2)
A*25:01:01	14(2)
A*25:01:01G	7 (1)
A*25:01	64(9)
A*25	100(19)
19 low/14 high labs - B	%(n)
B*07:02:01:01	29(4)
B*07:02:01G	14(2)
B*07:02	57(8)
B*07	100(19)
19 low/16 high labs - B	%(n)
B*14:02:01:01	25(4)
B*14:02	75(12)
B*14	100(19)
17 low/14 high Labs - C	%(n)
C*07:02:01:03	29(4)
C*07:02:01G	14(2)
C*07:02	57(8)
C*07	100(17)
17 low/14 high Labs - C	%(n)
C*08:02:01:01	29(4)
C*08:02:01G	7 (1)
C*08:02	64(9)
C*08	100(17)

Cell 1619	
17 low/12 high labs - A	%(n)
A*01:01:01:01	25(3)
A*01:01:01G	17(2)
A*01:01	58(7)
A*01	100(17)
17 low/12 high labs - A	%(n)
A*34:02:01	33(4)
A*34:02	67(7)
A*34	100(17)
17 low/12 high labs -B	%(n)
B*08:01:01:01	17(2)
B*08:01:01	8 (1)
B*08:01:01G	17(2)
B*08:01	58(7)
B*08	200(17)
17 low/12 high labs -B	%(n)
B*81:01:01G	17(2)
B*81:01	83(10)
B*81	100(17)
15 low/12 high Labs - C	%(n)
C*07:01:01:01	17(2)
C*07:01:01	8 (1)
C*07:01:01G	17(2)
C*07:01	58(7)
C*07	100(15)
15 low/12 high Labs - C	%(n)
C*18:01:01G	17(2)
C*18:01	83(10)
C*18	100(15)

Cell 1620	
18 low/12 high labs - A	%(n)
A*02:01:01	25(3)
A*02:01:01G	17(2)
A*02:01	58(7)
A*02	100(18)
18 low/13 high labs - A	%(n)
A*36:01	100(13)
A*36	100(18)
18 low/12 high labs - B	%(n)
B*53:01:01	33(4)
B*53:01	67(8)
B*53	100(18)
18 low/12 high labs - B	%(n)
B*58:01:01:03	8 (1)
B*58:01:01	25(3)
B*58:01	67(8)
B*58	100(18)
16 low/13 high labs - C	%(n)
C*03:02:02:01	8 (1)
C*03:02:02	15(2)
C*03:02:01G	8 (1)
C*03:02	69(9)
C*03	100(16)
16 low/12 high labs - C	%(n)
C*04:01:01:01	8 (1)
C*04:01:01	17(2)
C*04:01:01G	8 (1)
C*04:01P	8 (1)
C*04:01	58(7)
C*04	100(16)

Table 10. Summary of the 405th Cell Exchange (Cell #1617 - 1620)

Serological typing

(Hispanic) Cell 1617 (12 Samples Typed)	
A3	100.0%
	[100.0%]
A66	83.3%
A10	16.7%
	[100.0%]
B7	100.0%
	[100.0%]
B49	100.0%
	[100.0%]
Cw7	41.7%
Bw4	75.0%
Bw6	83.3%
Others Found	
B73	8.3%

(Caucasian) Cell 1618 (12 Samples Typed)	
A24	100.0%
	[100.0%]
A25	100.0%
	[100.0%]
B7	100.0%
	[100.0%]
B14	66.7%
B65	33.3%
	[100.0%]
Cw7	41.7%
Cw8	41.7%
Bw6	83.3%
Others Found	
Bw4	33.3%
B73	8.3%

(Black) Cell 1619 (11 Samples Typed)	
A1	100.0%
A34	81.8%
A10	9.1%
	[90.9%]
B8	100.0%
B81	81.8%
	[81.8%]
Cw7	36.4%
Bw6	81.8%
Others Found	
B7	18.2%
Cw18	9.1%
Cw4	9.1%
Cw17	9.1%
B73	9.1%

(Mixed) Cell 1620 (11 Samples Typed)	
A2	90.9%
	[90.9%]
A36	81.8%
B53	90.9%
B58	90.9%
B17	9.1%
	[100.0%]
Cw3	9.1%
Cw10	9.1%
	[18.2%]
Cw4	36.4%
	[36.4%]
Bw4	81.8%
Others Found	
B17	9.1%
Cw8	9.1%
A1	9.1%

Table 11. Individual laboratory results for Cell #1617

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02		
725	*03	*66	*07	*49	*07								SSO	
731	*03	*66	*07	*49	*07	*07	*03:01:01G	*66:01:01	*07:02:01G	*49:01:01G	*07:01:01G	*07:02:01G	SSO SBT	A*03:24 B*07:24 C*07:27 B*49:07 C*07:19
745							*03:01:01:01	*66:01:01:01	*07:02:01:01	*49:01:01	*07:01:01	*07:02:01:03	SBT NGS	
747	*03	*66	*07	*49	*07	*07	*03:01:01:01	*66:01:01:01	*07:02:01:01	*49:01:01	*07:01:01:01	*07:02:01:03	SSP SSO NGS	
762							*03:01:01:01	*66:01:01:01	*07:02:01:01	*49:01:01	*07:01:01:01	*07:02:01:03	SSP SSO NGS	
771	*03	*66	*07	*49	*07		*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SSP SSO	
774	*03	*66	*07	*49	*07	*07							SSP SSO	
779	*03	*66	*07	*49	*07	*07							SSP SSO	
3186	*03	*66	*07	*49	*07	*07							SSO	
														B*07:61 B*07:161N C*07:50 C*07:349 C*07:06 C*07:18 C*07:343 C*07:419 C*07:458 C*07:591 B*07:271 B*07:294 B*07:298 C*07:566 C*07:592 C*07:594 C*07:595 C*07:596 C*07:610
3545	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SSO SBT	
3625	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02		B*07:61 B*07:161N
3632	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SSP SSO	
3766	*03	*66	*07	*49										
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02:01G	*49:01	*07:01:01G	*07:02:01G	SSO SBT	
5133							*03:01:01:01	*66:01:01:01	*07:02:01:01	*49:01:01	*07:01:01	*07:02:01	NGS	
5214	*03	*66	*07	*49	*07								SSO	
5462	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SSO NGS	
5642	*03	*66	*07	*49	*07								SSP	
6649	*03	*66	*07	*49									SSO	
8001	*03	*66	*07	*49	*07								SSO	
8043	*03	*66	*07	*49	*07	*07	*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SSP SSO	
8070							*03:01	*66:01	*07:02	*49:01	*07:01	*07:02	SBT	

Table 12. Individual laboratory results for Cell #1618

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02		
725	*24	*25	*07	*14	*07	*08							SSO	
731	*24	*25	*07	*14	*07	*08	*24:02:01G	*25:01:01G	*07:02:01G	*14:02	*07:02:01G	*08:02:01G	SSO SBT	A*24:06 A*25:04 B*07:26 B*14:03 C*07:37 C*08:04
745							*24:02:01:01	*25:01:01:01	*07:02:01:01	*14:02:01:01	*07:02:01:03	*08:02:01:01	SBT NGS	
747	*24	*25	*07	*14	*07	*08	*24:02:01:01	*25:01:01	*07:02:01:01	*14:02:01:01	*07:02:01:03	*08:02:01:01	SSP SSO NGS	
762							*24:02:01:01	*25:01:01	*07:02:01:01	*14:02:01:01	*07:02:01:03	*08:02:01:01	SSP SSO NGS	
771	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SSP SSO	
774	*24	*25	*07	*14	*07	*08				*14:02			SSP SSO	B*14:39
779	*24	*25	*07	*14	*07	*08				*14:02			SSP SSO	
3186	*24	*25	*07	*14	*07	*08							SSO	
3545	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SSO SBT	A*24:352 A*24:353 B*07:61 B*07:161N C*07:50 C*07:349 B*07:271 B*07:294 B*07:298 C*07:566 C*07:592 C*07:594 C*07:595 C*07:596
3625	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02		A*24:352 A*24:353 B*07:61 B*07:161N
3632	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SSP SSO	
3766	*24	*25	*07	*14										
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*24	*25	*07	*14	*07	*08	*24:02P	*25:01	*07:02:01G	*14:02	*07:02:01G	*08:02	SSO SBT	
5133							*24:02:01	*25:01:01:01	*07:02:01:01	*14:02:01:01	*07:02:01:03	*08:02:01:01	NGS	
5214	*24	*25	*07	*14 (B65)	*07	*08							SSO	
5462	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SSO NGS	
5642	*24	*25	*07	*14	*07	*08							SSP	
6649	*24	*25	*07	*14									SSO	
8001	*24	*25	*07	*14	*07	*08							SSO	
8043	*24	*25	*07	*14	*07	*08	*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SSP SSO	
8070							*24:02	*25:01	*07:02	*14:02	*07:02	*08:02	SBT	

Table 13. Individual laboratory results for Cell #1619

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*01	*34	*08	*81	*07	*18	*01:01	*34:02	*08:01	*81:01	*07:01	*18:01		
725	*01	*34	*08	*81	*07	*18							SSO	
731	*01	*34	*08	*81	*07	*18	*01:01:01G	*34:02:01	*08:01:01G	*81:01:01G	*07:01:01G	*18:01:01G	SSO SBT	A*01:43 A*34:08
745							*01:01:01:01	*34:02:01	*08:01:01:01	*81:01	*07:01:01	*18:01	SBT NGS	
747	NT												SSP SSO NGS	
762							*01:01:01:01	*34:02:01	*08:01:01	*81:01	*07:01:01:01	*18:01	SSP SSO NGS	
771	*01	*34	*08	*81	*07	*18	*01:01	*34:02	*08:01	*81:01	*07:01	*18:01	SSP SSO	
774	*01	*34	*08	*81	*07	*18							SSP SSO	
779	*01	*34	*08	*81	*07	*18							SSP SSO	
3186	*01	*34	*08	*81	*07	*18							SSO	
3545	*01	*34	*08	*81	*07	*18	*01:01	*34:02	*08:01	*81:01	*07:01	*18:01	SSO SBT	A*01:234 B*81:02 C*07:06 C*07:18 C*07:343 C*07:419 C*07:458 C*07:591 C*18:02 B*08:173 B*08:182 B*08:183 C*07:610
3625	*01	*34	*08	*81	*07	*18	*01:01	*34:02	*08:01	*81:01	*07:01	*18:01		A*01:234
3632	*01	*34	*08	*81	*07	*18	*01:01	*34:02	*08:01	*81:01	*07:01	*18:01	SSP SSO	
3766	*01	*34	*08	*81										
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*01	*34	*08	*81	*07	*18	*01:01:01G	*34:02	*08:01:01G	*81:01:01G	*07:01:01G	*18:01:01G	SSO SBT	
5133							*01:01:01:01	*34:02:01	*08:01:01:01	*81:01	*07:01:01:01	*18:01	NGS	
5214	*01	*34	*08	*81	*07	*18							SSO	
5462							*01:01	*34:02	*08:01	*81:01	*07:01	*18:01	SSO NGS	
5642	*01	*34	*08	*81	*07	*18							SSP	
6649	*01	*34	*08	*81									SSO	
8001	*01	*34	*08	*81	*07	*18							SSO	
8043	*01	*34	*08	*81	*07	*18							SSP SSO	
8070							*01:01	*34:02	*08:01	*81:01	*07:01	*18:01	SBT	

Table 14. Individual laboratory results for Cell #1620

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*53:01	*58:01	*03:02	*04:01		
725	*02	*36	*53	*58	*03	*04							SSO	
731	*02	*36	*53	*58	*03	*04	*02:01:01G	*36:01	*53:01:01	*58:01:01	*03:02:01G	*04:01:01G	SSO SBT	
745							*02:01:01	*36:01	*53:01:01	*58:01:01	*03:02:02	*04:01:01	SBT NGS	
747													SSP SSO NGS	
762							*02:01:01	*36:01	*53:01:01	*58:01:01:03	*03:02:02:01	*04:01:01:01	SSP SSO NGS	
771	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*5:01	*58:01	*03:02	*04:01	SSP SSO	
774	*02	*36	*53	*58	*03	*04		*36:01					SSP SSO	A*36:05
779	*02	*36	*53	*58	*03	*04					*03:02		SSP SSO	
3186	*02	*36	*53	*58	*03	*04							SSO	
														C*04:30 C*04:82 C*04:226 C*04:275 A*02:629 A*02:665 A*02:686 A*02:689 A*02:704 C*04:277
3545	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*53:01	*58:01	*03:02	*04:01	SSO SBT	
														A*02:629 A*02:642 A*02:665 C*04:226
3625	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*53:01	*58:01	*03:02	*04:01		
3632	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*53:01	*58:01	*03:02	*04:01	SSP SSO	
3766	*02	*36	*53	*58										
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*02	*36	*53	*58	*03	*04	*02:01:01G	*36:01	*53:01	*58:01	*03:02	*04:01P	SSO SBT	
5133							*02:01:01	*36:01	*53:01:01	*58:01:01	*03:02:02	*04:01:01	NGS	
					*03									
5214	*02	*36	*53	*58	(Cw10)	*04							SSO	
5462	*02	*36	*53	*58	*03	*04	*02:01	*36:01	*53:01	*58:01	*03:02	*04:01	SSO NGS	
5642	*02	*36	*53	*58	*03	*04							SSP	
6649	*02	*36	*53	*58									SSO	
8001	*02	*36	*53	*58	*03	*04							SSO	
8043	*02	*36	*53	*58	*03	*04							SSP SSO	
8070							*02:01	*36:01	*53:01	*58:01	*03:02	*04:01	SBT	

Table 15. Individual laboratory results for Cell #1617-1620 by serology

Investigator	Days Old	Cell No 1617 (Hispanic)										Cell No 1618 (Caucasian)										Cell No 1619 (Black)										Cell No 1620 (Mixed)									
		Viab %	A3	A66	B7	B49	Cw7	Bw4	Bw6	OTHERS	Viab %	A24	A25	B7	B14	Cw7	Cw8	Bw6	OTHERS	Viab %	A1	A34	B8	B81	Cw7	Bw6	OTHERS	Viab %	A2	A36	B53	B58	Cw3	Cw4	Bw4	OTHERS					
Cecka, J. Mic	2	>95	+	+	+	+		+	+		>95	+	+	+	B65			+		>95	+	+	+	+		+		>95	+	+	+	+			+						
Enczmann, J		95	+	+	+	+					95	+	+	+	B65					95	+	+	+	+				95	+	+	+	+									
Fort, Marylis		NT									NT									NT								NT													
Hahn, Amy B.		99	+	+	+	+		+	+		99	+	+	+	+			+		99	+	+	+	+		+		99	+	+	+	+			+	B17					
Latham, Katy	3	100	+	+	+	+		+	+		100	+	+	+	+		+	Bw4		100	+	+	+	+		+		100	+	+	+	+			+						
Permpikul, Ve	6	90	+	+	+	+			+		90	+	+	+	+			+		90	+	+	+	+		+		90		+	+	+			+	A1					
Pule, Ziningi		90	+	+	+	+	+	+	+	B73	90	+	+	+	B65	+	+	+	B73, Bw4	70	+		+	B7	+	+	B73	70	+			B17		+	+						
Rees, Tracey	3	90	+	+	+	+	+				90	+	+	+	B65	+	+			90	+	+	+	+	+	Cw18	90	+	+	+	+	Cw10	+								
Renac, Virgin	3	100	+	+	+	+	+		+	+	100	+	+	+	+			+		100	+	+	+	+		+		100	+	+	+	+			+						
Shai, Isaac	7	92	+	A10	+	+	+	+	+		90	+	+	+	+	+	+			92	+	A10	+	B7	+	+	Cw4, Cw17	90	+		+	+	Cw8	+	+						
Varnavidou-Ni	8	85	+	+	+	+		+	+		83	+	+	+	+			+	Bw4	90	+	+	+	+		+	90	+	+	+	+			+							
Vidan-Jeras,		100	+	+	+	+	+	+	+		100	+	+	+	+	+	+	+	Bw4	100	+	+	+	+	+	+		100	+	+	+	+	+	+	+						
Villard, Jean	3	100	+	A10	+	+	+	+	+		100	+	+	+	+	+	+			NT								NT													

SERUM EXCHANGE #563

The results for **Serum Exchange 563 (sera 1245 - 1248)**, are summarized in Tables 16 -22 and individual laboratory results by method are listed in

Tables 23-34. Sera strong positive to 5C specificities were examined in this study.

1245	method	#labs	B49	B50	B63	B53	B51	B62	B57	B58	B35	B52	B56	B71	B72	B77	B75	B59	Cw6	A2	A32	A25	A26	A34	A66	A6601	A6602	A68	A69	B13	B38	B44
class I	NIH-Std	1	no consensus																													
	NIH-Ext	2	50%	50%	50%				50%																	38%						
	AHG	3	67%	67%	33%	67%	33%	33%			33%																					
	Luminex	29	100%	100%	100%	97%	100%	100%	100%	97%	100%	100%	100%	100%	100%	100%	100%	100%	90%	100%	100%	100%	97%	83%	79%		24%	69%	59%	97%	100%	100%
	Flow	3	no specificities assigned																													
	C1q	3	100%	100%	100%	100%	100%	67%	100%	100%		100%	67%	67%	67%	67%		67%	67%													
	Other	3	100%	100%	100%	100%	50%	100%	100%	100%	100%	100%	50%	100%	100%	50%	100%			100%	50%	50%	50%	50%	50%			50%	50%	50%		

1245	method	#labs	B47	B37	B41	B45	B55	B27	B54	B46	B60	B61	B76	B78	B7801	Cw5	Cw18	Cw15	Cw1	Cw12	Cw10	Cw16	Cw4	Cw7	A11	A1101	A23	A43	B67	B42	A24	A2403	B39
	Luminex	29	100%	97%	97%	97%	97%	97%	93%	86%	86%	86%	83%	83%	34%	79%	72%	69%	48%	48%	45%	45%	45%	41%	41%	24%	66%	66%	62%	52%	48%	21%	41%

1245	method	#labs	DR1	DR103	DR10	DR51	DR9	NEG	DQ5
class II	NIH-Ext	1	no specificities assignd						
	Luminex	22	82%	61%	32%	25%	25%	18%	11%
	Flow	3	no specificities assignd						
	C1q	1	no consensus						
	Other	2	50%						

Serum 1245 was reported as strongly positive to B21 (B49 and B50). Additional reactivity to B56, B59, as well as reactivity to a number of 5C specificities, was reported by various methods. In addition, Luminex and Luminex PRA reported reactivity to a number of 10C specificities. The reporting of class II antibodies was mixed among labs, with a

number (n=18) of Luminex labs and 1 PRA lab reporting anti-DR1 reactivity. In addition, some Luminex labs also reported anti-DR103 reactivity. Interestingly, 4 Luminex labs and 1 C1q lab reported this sample as negative for class II.

1246	method	#abs	B50	B13	B44	B45	B49	B60	B62	A34	B41	B47	B48	A30	A31	A33	B61	A68	B35	B51	B53	B71	B72	B70	B76
class I	NIH-Std	1	no consensus																						
	NIH-Ext	2	50%									50%													
	AHG	3	67%	33%	33%	33%	67%	33%	33%	33%	33%		33%											33%	
	Luminex	29	100%	93%	100%	100%	100%	97%	97%	93%	93%	90%	79%	98%		97%	83%	76%	79%	41%	69%	90%	93%		93%
	Flow	3	no specificities assigned																						
	C1q	3	no consensus																						
	Other	3	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
1246	method	#abs	B56	B75	B27	A66	B81	B52	B77	B8	A6602	B38	B39	B2708	B59	A25	A29	B18	B78	A69	B73	A26	B64	A74	B37
	Luminex	28	83%	66%	66%	59%	55%	52%	48%	38%	34%	34%	34%	31%	31%	28%	28%	28%	28%	24%	24%	21%	21%	17%	17%

1246	method	#abs	DR8	DR11	DR12	DR13	DR14	DR17	DR18	DR52	DQ2	DP18	DP28	DPw2	DPw3	DPw6	DP14	DP17	DP9
class II	NIH-Ext	1	no consensus																
	Luminex	27	100%	100%	100%	100%	100%	100%	96%	96%	100%	93%	93%	93%	81%	81%	81%	81%	78%
	Flow	3	no specificities assigned																
	C1q	2	100%	100%	100%	100%	100%	100%	100%	50%									
	Other	2	100%	100%	100%	100%	100%	100%	100%	100%	100%								
1246	method	#abs	DP10	DP20	DQA1*05	DR4	DPw4	DP402	DQA1*06	DQ4	DQA1*04	DQ7	DR10	DR1404	DR1403	DQA1*03	DPA1*01	DPA1*04	DQ5
class II	Luminex	27	67%	63%	63%	63%	63%	52%	52%	51%	51%	51%	30%	26%	22%	19%	11%	11%	11%

For **serum 1246**, anti-B50 reactivity was reported by NIH-extended, anti-globulin, Luminex, and Luminex PRA. Additional reactivity to B44, B45, as well as reactivity to a number of 5C and 7C specificities, was also reported by various methods. For class II, anti-DR8, -DR11, -DR12, -DR13, -DR14, -

DR17, -DR18, and -DR52 reactivity was reported. Additional reactivity to DQ2 was also reported by Luminex and Luminex PRA. Additional reactivity to a number of DP and DQ specificities was reported by Luminex as well. Allele specific DPB1*04:02 reactivity was reported by 3 labs.

1247	method	#labs	B35	B51	B52	B53	B49	B50	B58	B57	B62	B63	B18	B75	B78	B7801	B71	B72	B70	B46	B56	B37	Cw15	Cw17	Cw18	Cw2	Cw4	Cw5	Cw6
class I	NIH-Std	1	no consensus																										
	NIH-Ext	2	100%	100%	50%	50%	50%	50%	100%																				
	AHG	3	100%	100%	100%	100%	67%	67%	33%	67%	67%	67%	33%	33%	33%				67%	33%	33%								
	Luminex	29	100%	100%	100%	100%	100%	100%	97%	100%	100%	100%	97%	100%	93%	24%	100%	100%		100%	100%	100%	93%	100%	100%	97%	100%	100%	97%
	Flow	3	no specificities assigned																										
	C1q	3	100%		100%	100%	100%	100%	100%	100%	100%	100%	33%	100%	100%		100%	100%		100%	100%	33%	100%	100%	100%	100%	100%	100%	100%
	Other	3	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	100%	100%		100%	100%											

1247	method	#labs	B51	Cw10	Cw12	Cw9	B77	B44	A25	A66	B27	B54	B45	A33	Cw14	B64	B73	A31	A26	Cw1	B76	B2708	B55	B13	Cw403	Cw8	A68	B82	
	AHG	3						33%																					
	Luminex	29	100%	97%	69%	93%	97%	86%	66%	41%	76%	83%	76%	76%	69%	69%	66%	66%	59%	59%	38%	31%	24%	21%	21%	21%	21%	17%	17%
	C1q	3	67%	67%	67%	67%	100%																						
	Other	3							50%	50%																			

1247	method	#labs	DQ7	DQ8	DQ9	DR52	DR13	DQA1*03	DQA1*05	DQA1*06	DR17	DR18	DQ3
class II	NIH-Ext	1	no specificities assigned										
	Luminex	26	100%	96%	92%	46%	42%	15%	15%	15%	15%	15%	12%
	Flow	3	no specificities assigned										
	C1q	2	100%										
	Other	2	100%	100%	100%								

Serum 1247 was reported as strongly positive to B35, B51, B52, and B53. Additional reactivity to other B5 specificities, as well as anti-B56 reactivity was reported by various methods. Reactivity to B37 and to a number of C-

locus specificities was also reported by Luminex and C1q. Anti-DQ7 reactivity was reported by Luminex, C1q, and PRA labs. Additional reactivity to DQ8 and DQ9 was also reported by Luminex and PRA.

1248	method	#labs	B51	B52	B63	B18	B64	B65	B8	B49	B78	B7801	A3	B13	B38	B39	B75	B35	B77	B71	B82	A33	B59	B57	B67	B46	B53	B61	Cw15	Cw5	B58	B42	B37
class I	NIH-Std	1	no consensus																														
	NIH-Ext	2	100%	50%																													
	AHG	3	100%	67%	33%	33%	33%	33%	33%	33%						33%																	
	Luminex	28	100%	100%	100%	97%	93%	93%	90%	100%	90%	21%	97%	72%	45%	17%	100%		97%	97%	90%	86%	79%	62%	55%	38%	38%	38%	38%	38%	34%	28%	24%
	Flow	3	no specificities assigned																														
	C1q	3	100%	100%	100%						100%																						
	Other	3	100%	100%	100%	100%	100%	100%	50%	50%	100%		50%	50%	50%		50%	50%															

1248	method	#labs	DR4	DR52	DP28	DPw4	DR16	DR15	NEG	DP402
class II	NIH-Ext	1	no specificities assigned							
	Luminex	24	88%	21%	17%	17%	17%	17%	13%	8%
	Flow	4	25%							
	C1q	1	no consensus							
	Other	1	no consensus							

For **Serum 1248**, strong anti-B51 and –B52 reactivity was reported. Additional reactivity to B8, B64, and B65, as well as reactivity to a number of 5C specificities, was reported by various methods. For class II, anti-DR4 reactivi-

ty was reported by Luminex and 1 Flow lab. Several Luminex labs and 1 C1q lab reported this sample as negative for class II.

NEXT MAILING DATE: August 8, 2018

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Table 16. Summary of the 563rd Serum Exchange (Serum #1245-1248) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard											
*** Serum 1245 ***			*** Serum 1245 ***			*** Serum 1247 ***			*** Serum 1248 ***		
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 specificities assigned			no consensus			no consensus		

Method: NIH-Extended											
*** Serum 1245 ***			*** Serum 1246 ***			*** Serum 1247 ***			*** Serum 1248 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B49	50%	100%	B47	50%	100%	B35	100%	88%	B51	100%	100%
B50	50%	50%	B50	50%	50%	B51	100%	75%	B52	50%	100%
B57	50%	50%				B58	100%	67%			
B63	50%	50%				B52	50%	100%			
						B53	50%	100%			
						B49	50%	75%			
						B50	50%	50%			

Table 17. Summary of the 563rd Serum Exchange (Serum #1245-1248) by Antiglobulin - class I

Method: Antiglobulin											
*** Serum 1245 ***			*** Serum 1246 ***			*** Serum 1247 ***			*** Serum 1248 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B49	67%	100%	B49	67%	100%	B35	100%	100%	B51	100%	100%
B50	67%	100%	B50	67%	75%	B51	100%	100%	B52	67%	100%
B53	67%	100%	A34	33%	100%	B52	100%	100%	B49	33%	100%
B35	33%	100%	B13	33%	100%	B53	100%	100%	B63	33%	100%
B51	33%	100%	B41	33%	100%	B49	67%	100%	B65	33%	83%
B62	33%	100%	B48	33%	100%	B50	67%	100%	B39	33%	67%
B63	33%	100%	B70	33%	100%	B57	67%	100%	B8	33%	67%
			B60	33%	80%	B62	67%	100%	B64	33%	50%
			B62	33%	80%	B63	67%	100%	B18	33%	33%
			B44	33%	78%	B70	67%	100%			
			B45	33%	67%	B18	33%	100%			
						B44	33%	100%			
						B46	33%	100%			
						B56	33%	100%			
						B58	33%	100%			
						B75	33%	100%			
						B78	33%	100%			

Table 18. Summary of the 563rd Serum Exchange (Serum #1245-1248) by Flow Cytometry and Other - class I

Method: Flow Cytometry											
*** Serum 1245 ***			*** Serum 1246 ***			*** Serum 1247 ***			*** Serum 1248 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

Method: Other											
*** Serum 1245 ***			*** Serum 1246 ***			*** Serum 1247 ***			*** Serum 1248 ***		
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%	A30	100%	100%	B35	100%	100%	B18	100%	100%
B35	100%	100%	A31	100%	100%	B49	100%	100%	B51	100%	100%
B49	100%	100%	A33	100%	100%	B50	100%	100%	B52	100%	100%
B50	100%	100%	B13	100%	100%	B51	100%	100%	B63	100%	100%
B52	100%	100%	B44	100%	100%	B52	100%	100%	B64	100%	100%
B53	100%	100%	B45	100%	100%	B53	100%	100%	B65	100%	100%
B57	100%	100%	B49	100%	100%	B57	100%	100%	B78	100%	100%
B58	100%	100%	B50	100%	100%	B58	100%	100%	A3	50%	100%
B62	100%	100%	B60	100%	100%	B62	100%	100%	B13	50%	100%
B63	100%	100%	B61	100%	100%	B63	100%	100%	B35	50%	100%
B71	100%	100%	B62	100%	100%	B71	100%	100%	B38	50%	100%
B72	100%	100%	A34	50%	100%	B72	100%	100%	B49	50%	100%
B75	100%	100%	A68	50%	100%	B75	100%	100%	B75	50%	100%
A25	50%	100%	B35	50%	100%	B78	100%	100%	B8	50%	100%
A26	50%	100%	B41	50%	100%	A25	50%	100%			
A32	50%	100%	B47	50%	100%	A66	50%	100%			
A34	50%	100%	B48	50%	100%	B18	50%	100%			
A66	50%	100%	B51	50%	100%	B27	50%	100%			
A68	50%	100%	B53	50%	100%	B37	50%	100%			
A69	50%	100%	B71	50%	100%	B44	50%	100%			
B13	50%	100%	B72	50%	100%	B45	50%	100%			
B51	50%	100%									
B56	50%	100%									
B77	50%	100%									

Table 19. Summary of the 563rd Serum Exchange (Serum #1245-1248) by Luminex - class I

Method: Luminex											
*** Serum 1245 ***			*** Serum 1246 ***			*** Serum 1247 ***			*** Serum 1248 ***		
29 typing Labs			29 typing Labs			29 typing Labs			29 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion		Consensus	Inclusion
A2	100%	100%	B45	100%	100%	B35	100%	100%	B49	100%	100%
A25	100%	100%	B49	100%	100%	B37	100%	100%	B51	100%	100%
A32	100%	100%	B44	100%	67%	B46	100%	100%	B52	100%	100%
B35	100%	100%	B50	100%	67%	B49	100%	100%	B63	100%	100%
B38	100%	100%	A30	97%	100%	B50	100%	100%	B75	100%	100%
B44	100%	100%	A31	97%	100%	B51	100%	100%	A3	97%	100%
B47	100%	100%	A33	97%	100%	B52	100%	100%	B77	97%	100%
B49	100%	100%	B60	97%	100%	B53	100%	100%	B18	97%	40%
B50	100%	100%	B62	97%	100%	B56	100%	100%	B71	97%	33%
B51	100%	100%	A34	93%	100%	B57	100%	100%	B64	93%	100%
B52	100%	100%	B13	93%	100%	B62	100%	100%	B65	93%	75%
B56	100%	100%	B41	93%	100%	B63	100%	100%	B78	90%	100%
B57	100%	100%	B72	93%	100%	B71	100%	100%	B82	90%	50%
B59	100%	100%	B76	93%	50%	B72	100%	100%	B8	90%	20%
B62	100%	100%	B47	90%	100%	B75	100%	100%	A33	86%	67%
B63	100%	100%	B71	90%	100%	Cw17	100%	100%	B59	79%	33%
B71	100%	100%	B56	83%	100%	Cw18	100%	100%	B13	72%	60%
B72	100%	100%	B61	83%	100%	Cw4	100%	100%	B57	62%	50%
B75	100%	100%	B35	79%	100%	Cw5	100%	100%	B67	55%	100%
B77	100%	100%	B48	79%	100%	B18	97%	100%	B38	45%	100%
A26	97%	100%	A68	76%	71%	B58	97%	100%	B46	38%	100%
B13	97%	100%	B53	69%	100%	B77	97%	100%	B53	38%	100%
B37	97%	100%	B75	66%	60%	Cw2	97%	100%	B61	38%	100%
B41	97%	100%	B27	66%	40%	Cw6	97%	92%	Cw15	38%	100%
B45	97%	100%	A66	59%	50%	Cw10	97%	92%	Cw5	38%	100%
B53	97%	100%	B81	55%	50%	B78	93%	100%	B58	34%	100%
B55	97%	100%	B52	52%	100%	Cw15	93%	100%	B42	28%	100%
B58	97%	100%	B77	48%	100%	Cw9	93%	100%	B37	24%	100%
B27	97%	80%	B51	41%	100%	B44	86%	100%	B7801	21%	100%
B54	93%	100%	B8	38%	100%	B54	83%	33%	B39	17%	100%
Cw6	90%	100%	A6602	34%	100%	B27	76%	100%			
B46	86%	100%	B38	34%	100%	B45	76%	100%			
B60	86%	100%	B39	34%	100%	A33	76%	83%			
B61	86%	100%	B2708	31%	100%	Cw14	69%	100%			

Table 19. Summary of the 563rd Serum Exchange (Serum #1245-1248) by Luminex - class I

Method: Luminex - cont.								
*** Serum 1245 ***			*** Serum 1246 ***			*** Serum 1247 ***		
29 typing Labs			29 typing Labs			29 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B76	83%	100%	B59	31%	100%	B64	69%	75%
B78	83%	100%	A25	28%	100%	Cw12	69%	67%
A34	83%	83%	A29	28%	100%	A25	66%	100%
Cw5	79%	100%	B18	28%	100%	B73	66%	100%
A66	79%	83%	B78	28%	100%	A31	66%	67%
Cw18	72%	100%	A69	24%	100%	A26	59%	100%
A68	69%	100%	B73	24%	100%	Cw1	59%	100%
Cw15	69%	100%	A26	21%	100%	A66	41%	50%
A23	66%	100%	B64	21%	100%	B76	38%	100%
A43	66%	100%	A74	17%	100%	B2708	31%	100%
B67	62%	100%	B37	17%	100%	B55	24%	100%
A69	59%	100%				B7801	24%	100%
B42	52%	100%				B13	21%	100%
A24	48%	100%				Cw403	21%	100%
Cw1	48%	100%				Cw8	21%	100%
Cw12	48%	100%				A68	17%	100%
Cw8	48%	100%				B82	17%	100%
Cw10	45%	100%						
Cw16	45%	100%						
Cw4	45%	100%						
A11	41%	100%						
B39	41%	100%						
Cw7	41%	100%						
A6601	38%	100%						
Cw14	38%	100%						
Cw17	38%	100%						
B7801	34%	100%						
Cw9	34%	100%						
A203	31%	100%						
B82	28%	100%						
Bw4	28%	100%						
Cw2	28%	100%						
A1101	24%	100%						
A6602	24%	100%						
A2403	21%	100%						

Table 20. Summary of the 563rd Serum Exchange (Serum #1245-1248) by C1q - class I

Method: C1q											
*** Serum 1245 ***			*** Serum 1245 ***			*** Serum 1247 ***			*** Serum 1248 ***		
3 typing Labs			1 typing Lab			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B49	100%	100%	no consensus			B35	100%	100%	B51	100%	100%
B50	100%	100%				B46	100%	100%	B52	100%	100%
B51	100%	100%				B49	100%	100%	B63	100%	100%
B52	100%	100%				B50	100%	100%	B78	100%	100%
B53	100%	100%				B52	100%	100%			
B57	100%	100%				B53	100%	100%			
B58	100%	100%				B56	100%	100%			
B63	100%	100%				B57	100%	100%			
B56	67%	100%				B58	100%	100%			
B59	67%	100%				B62	100%	100%			
B62	67%	100%				B63	100%	100%			
B71	67%	100%				B71	100%	100%			
B72	67%	100%				B72	100%	100%			
B77	67%	100%				B75	100%	100%			
Cw6	33%	100%				B77	100%	100%			
						B78	100%	100%			
						Cw15	100%	100%			
						Cw17	100%	100%			
						Cw18	100%	100%			
						Cw2	100%	100%			
						Cw4	100%	100%			
						Cw5	100%	100%			
						Cw6	100%	100%			
						B51	67%	100%			
						Cw10	67%	100%			
						Cw12	67%	100%			
						Cw9	67%	100%			
						B18	33%	100%			
						B37	33%	100%			

Table 21. Summary of the 563rd Serum Exchange (Serum #1245-1248) by NIH-Extended and Flow cytometry - class II

Method: NIH-Extended											
*** Serum 1245 ***			*** Serum 1246 ***			*** Serum 1247 ***			*** Serum 1248 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no consensus			no specificities assigned			no specificities assigned		
Method: Flow Cytometry											
*** Serum 1245 ***			*** Serum 1246 ***			*** Serum 1247 ***			*** Serum 1248 ***		
3 typing Labs			3 typing Labs			3 typing Labs			4 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			DR4	25%	100%

Table 22. Summary of the 563rd Serum Exchange (Serum #1245-1248) by Other and C1q - class II

Method: Other											
*** Serum 1245 ***			*** Serum 1246 ***			*** Serum 1247 ***			*** Serum 1248 ***		
2 typing Labs			2 typing Labs			2 typing Labs			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR1	50%	100%	DQ2	100%	100%	DQ7	100%	100%	no consensus		
			DR8	100%	100%	DQ8	100%	100%			
			DR11	100%	100%	DQ9	100%	100%			
			DR12	100%	100%						
			DR13	100%	100%						
			DR14	100%	100%						
			DR17	100%	100%						
			DR18	100%	100%						
			DR52	100%	100%						

Other = Flow PRA

Method: C1q											
*** Serum 1245 ***			*** Serum 1246 ***			*** Serum 1247 ***			*** Serum 1248 ***		
1 typing Lab			2 typing Labs			2 typing Labs			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			DR8	100%	100%	DQ7	100%	100%	no consensus		
			DR11	100%	100%						
			DR12	100%	100%						
			DR13	100%	100%						
			DR14	100%	100%						
			DR17	100%	100%						
			DR18	100%	100%						
			DR52	50%	100%						

Table 23. Summary of the 563rd Serum Exchange (Serum #1241-1244) by Luminex - class II

Method: Luminex											
*** Serum 1245 ***			*** Serum 1246 ***			*** Serum 1247 ***			*** Serum 1248 ***		
22 typing Labs			27 typing Labs			26 typing Labs			25 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR1	82%	100%	DQ2	100%	100%	DQ7	100%	100%	DR4	84%	100%
DR103	61%	100%	DR11	100%	100%	DQ8	96%	83%	DR52	20%	100%
DR10	32%	100%	DR12	100%	100%	DQ9	92%	100%	DP28	16%	100%
DR51	25%	100%	DR13	100%	100%	DR52	46%	100%	DPw4	16%	100%
DR9	25%	100%	DR14	100%	100%	DR13	42%	100%	DR16	16%	50%
NEG	18%	100%	DR17	100%	100%	DQA1*03	15%	100%	DR15	16%	33%
DQ5	11%	50%	DR8	100%	100%	DQA1*05	15%	100%	NEG	12%	100%
			DR18	96%	100%	DQA1*06	15%	100%	DP402	12%	100%
			DR52	96%	100%	DR17	15%	100%			
			DP18	93%	100%	DR18	15%	100%			
			DP28	93%	100%	DQ3	12%	100%			
			DPw2	93%	100%						
			DPw3	81%	100%						
			DPw6	81%	100%						
			DP14	81%	100%						
			DP17	81%	100%						
			DP9	78%	100%						
			DP10	67%	100%						
			DP20	63%	100%						
			DQA1*05	63%	100%						
			DR4	63%	100%						
			DPw4	63%	86%						
			DP402	52%	100%						
			DQA1*06	52%	100%						
			DQ4	51%	100%						
			DQA1*04	51%	100%						
			DQ7	51%	60%						
			DR10	30%	100%						
			DR1404	26%	100%						
			DR1403	22%	100%						
			DQA1*03	19%	100%						
			DPA1*01	11%	100%						
			DPA1*04	11%	100%						
			DQ5	11%	100%						

Table 24. Individual laboratory results for Serum #1245-1248 by NIH-Standard and NIH-Extended - class I

		**** Serum 1245 ****				**** Serum 1246 ****				**** Serum 1247 ****						**** Serum 1248 ****				
Ctrl	% POS	B49	B50	Other	% POS			Other	% POS	B35	B51	B52	B53	B57	Other	% POS	B51	B52	Other	Method
786	17	+	+		2				42	+	+	+	+	+		8	+	+		STD

STD = NIH Standard

		**** Serum 1245 ****				**** Serum 1246 ****				**** Serum 1247 ****						**** Serum 1248 ****				
Ctrl	% POS	B49	B50	Other	% POS	B47	B50	Other	% POS	B35	B51	B58			Other	% POS	B51	B52	Other	Method
725	14	+	+	B63,B57	17	+	+		33	+	+	+			B49,B50	8	+			EXT
3753	2				0				29	+	+	+			B52,B53	12	+	+		EXT

Ext - NIH-extended

Table 25. Individual laboratory results for Serum #1245-1248 by Antiglobulin - class I

		**** Serum 1245 ****				**** Serum 1246 ****				**** Serum 1247 ****										**** Serum 1248 ****							
Ctr	% POS	B49	B50	B53	Other	% POS	B49	B50	Other	% POS	B35	B51	B52	B53	B49	B50	B57	B62	B63	B70	Other	% POS	B51	B52	Other	Method	
774	94					89	+	+	B60,B48,B70,B62 >	82	+	+	+	+	+	+	+	+	+	+	+	B44,B75,B56,B58 >	40	+	+	B49,B64,B65,B63 >	Antiglobulin
786	17	+	+	+		7				43	+	+	+	+			+			+		8	+	+		Antiglobulin	
910		+	+	+	B62,B51,B63,B35		+	+	A34,B41		+	+	+	+	+	+							+			Antiglobulin	

Table 25. Individual laboratory results for Serum #1241-1248 by Flow Cytometry and Other - class I

**** Serum 1245 ****														**** Serum 1246 ****															
Ctr	% POS													Other	% POS													Other	Method
3224	100														90														FC
5214	99														95														FC
8067	96														91														FC

**** Serum 1247 ****														**** Serum 1248 ****															
Ctr	% POS													Other	% POS													Other	Method
3224	85														84														FC
5214	96														65														FC
8067	84														61														FC

FC = Flow cytometry

**** Serum 1245 ****														**** Serum 1246 ****															
Ctr	% POS	A2	B35	B49	B50	B52	B53	B57	B58	B62	B63	B71	B72	B75	Other	% POS	A30	A31	A33	B13	B44	B45	B49	B50	B60	B61	B62	Other	Method
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B51,A25,A26 >		+	+	+	+	+	+	+	+	+	+	+	B48,B47,B51,B53 >	Other
3753	76	+	+	+	+	+	+	+	+	+	+	+	+	+	B13,B56,B77	76	+	+	+	+	+	+	+	+	+	+	+		Other

**** Serum 1247 ****														**** Serum 1248 ****																		
Ctr	% POS	B35	B49	B50	B51	B52	B53	B57	B58	B62	B63	B71	B72	B75	B78	Other	% POS	B18	B51	B52	B63	B64	B65	B78							Other	Method
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B44,B27,B45 >		+	+	+	+	+	+	+							B49,B13,B75,B38 >	Other
3753	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+		36	+	+	+	+	+	+	+							A3	Other

Other = Luminex PRA

Table 26. Individual laboratory results for Serum #1245 by Luminex - class I

		**** Serum 1245 ****																																									
Center	% POS	A2	A25	A32	B35	B38	B44	B47	B49	B50	B51	B52	B56	B57	B59	B62	B63	B71	B72	B75	B77	A26	B13	B37	B41	B45	B53	B55	B58	B27	B54	Cw6	B46	B60	B61	B76	B78	A34	Other	Method			
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A66,B67,B*27:05>	LMX		
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A66,B67,B*27:05>	LMX	
731	52	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw403,A23,A68,A43 >	LMX	
774	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B67,Cw5,Cw15 >	LMX	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A24,A203,B48 >	LMX	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A66,B67 >	LMX	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,Cw5,Cw15,Cw18	LMX	
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A24,A203,B48 >	LMX	
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A24,A66,A*33:03>	LMX	
3632	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B67,A23 >	LMX	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A66,B67 >	LMX	
3766	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A24,A66 >	LMX	
3808	56	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A24,A66 >	LMX	
3966	67	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B67,A23,A68 >	LMX	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A24,B48 >	LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B67,A23,A68 >	LMX	
5219	46	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A24,A9>	LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,A66,Cw5,Cw15,A*66:01>	LMX	
6649	58	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw403,A24,A203,B82 >	LMX	
8043	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A24,B48 >	LMX	
8045	40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,A66	LMX	
8048	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B40,B67,A23 >	LMX	
8058	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A24,A66 >	LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B67 >	LMX	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A66,B82 >	LMX
8086	51	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,Cw5,Cw15,Cw18	LMX	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A203,A66,B7801 >	LMX	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B67,A68,A69 >	LMX	
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw403,A203,B40 >	LMX	

Table 27. Individual laboratory results for Serum #1246 by Luminex - class I

		**** Serum 1246 ****																																											
Center	% POS	B45	B49	B44	B50	A30	A31	A33	B60	B62	A34	B13	B41	B72	B76	B47	B71	B56	B61	B35	B48	A68	B53	B75	B27	A66	B81	B52	B77	B51	B8	A6602	B38	B39	B2708	B59	Other	Method							
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B67,A25,A26 >	LMX						
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								
731	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								
774	62	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,A25,A26,A29 >	LMX					
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A25,A26,A29,A74 >	LMX				
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B67,A25,A26 >	LMX				
3632	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
3766	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A25,A29,A69,B73 >	LMX				
3808	22	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
3966	37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B67,A25,A26 >	LMX			
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
5219	9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B70,B21 >	LMX			
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
6649	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
8043	74	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B82,A29,A74 >	LMX			
8045	17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
8048	56	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B8101,B3901	LMX			
8058	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,A25,A26,A29 >	LMX			
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,B78,B63 >	LMX			
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
8086	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,A25,B18	LMX		
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40	LMX		

Table 29. Individual laboratory results for Serum #1248 by Luminex - class I

		**** Serum 1248 ****																															
Center	% POS	B49	B61	B52	B63	B75	A3	B77	B18	B71	B64	B65	B78	B82	B8	A33	B59	B13	B57	B67	B38	B46	B53	B61	Cw15	Cw5	B68	B42	B37	B7801	Other	Method	
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B62,B44,B55,B39,A*33:01>	LMX
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B14	LMX
731	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
774	44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Cw10,B8201	LMX
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B48	LMX
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B8201,B3901	LMX
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A*33:01,B*13:02,B*57:03	LMX
3632	79	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B39	LMX
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A*33:01,B*13:02,B*57:03	LMX
3766	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B39,B8201,B3901	LMX
3808	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
3966	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B76,B39	LMX
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B48,B62,B44,B55 >	LMX
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
5219	11	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B15,B70,B21,B5 >	LMX
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A*33:01,B*13:02,B*57:03	LMX
6649	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8043	44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B47,B54,A69,B73 >	LMX
8045	16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8048	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B40,B55,B14,B72 >	LMX
8058	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8086	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B15,B14	LMX

Table 30. Individual laboratory results for Serum #1248 by C1q - class I

		**** Serum 1245 ****														**** Serum 1246 ****				
Ctr	% POS	B49	B50	B51	B52	B53	B57	B58	B63	B56	B59	B62	B71	B72	B77	Other	% POS	Other	Method	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6	NT		C1q	
2400		+	+	+	+	+	+	+	+								NT		C1q	
3632	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+		0		C1q	

		**** Serum 1247 ****																	**** Serum 1248 ****																		
Ctr	% POS	B35	B46	B49	B50	B52	B53	B56	B57	B58	B62	B63	B71	B72	B75	B77	B78	Cw15	Cw17	Cw18	Cw2	Cw4	Cw5	Cw6	B51	Cw10	Cw12	Cw9	Other	% POS	B51	B52	B63	B78	Other	Method	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+		C1q	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+	+	+	+		C1q
3632	83	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B18,B37	13	+	+	+	+		C1q	

Table 31. Individual laboratory results for Serum #1248 - 1248 by various methods - class II

**** Serum 1245 ****			**** Serum 1246 ****										**** Serum 1247 ****			**** Serum 1248 ****			
Ctr	% POS	Other	% POS	DR17										% POS		Other	% POS	Other	Method
3753	2		42	+										44			9		EXT

Ext = NIH-Extended

**** Serum 1245 ****			**** Serum 1246 ****										**** Serum 1247 ****			**** Serum 1248 ****				
Ctr	% POS	Other	% POS											% POS		Other	% POS	DR4	Other	Method
3224	38		100											75			10			FC
5214	37		98											61			9			FC
8062	NT		NT											NT				+		FC
8067	37		95											71			10			FC

FC = Flow Cytometry

**** Serum 1245 ****			**** Serum 1246 ****										**** Serum 1247 ****			**** Serum 1248 ****							
Ctr	% POS	DR1	Other	% POS	DQ2	DR11	DR12	DR13	DR14	DR17	DR18	DR52	DR8	Other	% POS	DQ7	DQ8	DQ9	Other	% POS	DR4	Other	Method
2400	NT				+	+	+	+	+	+	+	+	+			+	+	+		NT			Other
3753	13	+		67	+	+	+	+	+	+	+	+	+		47	+	+	+		13	+		Other

Other = Flow PRA

**** Serum 1245 ****			**** Serum 1246 ****										**** Serum 1247 ****			**** Serum 1248 ****							
Ctr	% POS	Other	% POS	DR11	DR12	DR13	DR14	DR17	DR18	DR8				Other	% POS	DQ7			Other	% POS	Other	Method	
2400	NT			+	+	+	+	+	+	+						+				NT			C1q
3632	0		68	+	+	+	+	+	+	+				DR52	26	+				0			C1q

Table 32. Individual laboratory results for Serum #1245 by Luminex - class II

**** Serum 1245 ****										
Center	% POS	DR1	DR103	DR10	DR51	DR9	DR5	DR14	Other	Method
615		+	+	+	+	+	+	+	DQB1*05:01	LMX
731	7	+	+	+		+				LMX
774	0									LMX
910		+	+							LMX
2400	NT									LMX
3224		+	+	+	+	+				LMX
3582		+	+	+	+	+				LMX
3632	19	+	+							LMX
3753		+	+							LMX
3766	22	+	+							LMX
3808	6	+	+	+	+					LMX
3966	11	+	+							LMX
4322		+	+	+	+	+				LMX
5214	NT									LMX
5219	0									LMX
5462		+	+							LMX
6649	3	+	+							LMX
8043	43	+	+	+						LMX
8045	0									LMX
8048	0									LMX
8058	9	+	+	+	+	+	+			LMX
8062										LMX
8082		+	+							LMX
8086	11	+	+	+	+	+	+	+		LMX
8098										LMX
8100	NT									LMX
8103		+								LMX

Table 33. Individual laboratory results for Serum #1246 by Luminex - class II

		**** Serum 1246 ****																																							
Center	% POS	DQ2	DR11	DR12	DR13	DR14	DR17	DR8	DR18	DR52	DP18	DP28	DPW2	DPW3	DPW6	DP14	DP17	DP9	DP10	DP20	DQA1*05	DR4	DPW4	DP402	DQA1*06	DQ4	DQA1*04	DQ7	DR10	DR1404	DR1403	DQA1*03	DPA1*01	DPA1*04	DQ5	DR3	Other	Method			
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									DPB1*04:02	LMX		
731	50	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+		+	+		+	+					+											LMX	
774	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											DPB1*04:02, DQA1*05:03, DQA1*05:05, DQA1*06:01, DQB1*05:01	LMX	
3632	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
3766	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
3808	50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
3966	45	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX
5219	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	DR5,DR6,DQ3,DQ9	LMX		
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												DPB1*04:02	LMX
6649	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
8043	70	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
8045	45	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
8048	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
8058	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
8086	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX	

Table 34. Individual laboratory results for Serum #1248 - 1248 by Luminex - class II

Center	**** Serum 1247 ****											**** Serum 1248 ****								Method					
	% POS	DQ7	DQ8	DQ9	DR52	DR13	DQA1*03	DQA1*05	DQA1*06	DR17	DR18	DQ3	DR14	Other	% POS	DR4	DR52	DP28	DPw4		DR16	DR15	DP402	DPw2	Other
615		+	+	+	+	+			+	+		+				+									LMX
731	19	+	+	+		+			+	+				DR3,DR1403	9	+		+	+			+			LMX
774	34	+	+	+											0										LMX
910		+	+	+												+									LMX
2400		+	+	+											NT										LMX
3224		+	+	+	+	+										+									LMX
3582			+	+	+											+									LMX
3632	38	+	+	+											29	+				+	+				LMX
3753		+	+	+												+									LMX
3766	54	+	+	+	+										34	+									LMX
3808	18	+	+	+	+								+		9	+	+	+	+			+			LMX
3966	12	+	+	+			+	+	+						5	+									LMX
4322		+	+	+	+	+	+	+	+							+									LMX
5214		+	+	+																				DP19	LMX
5219	10	+	+	+	+	+							+	DR6		+	+	+	+			+	DP17	LMX	
5462		+	+	+												+									LMX
6649	13	+	+	+	+	+									7	+	+								LMX
8043	30	+													0										LMX
8045	13	+	+	+	+	+									5	+	+								LMX
8048	34	+	+	+			+	+	+						20	+				+	+				LMX
8058	18	+	+	+	+	+				+	+		+		7	+				+	+				LMX
8062		+	+	+	+	+										+									LMX
8082		+	+	+	+	+	+	+	+							+									LMX
8086	12	+	+	+											7	+				+	+				LMX
8098		+	+	+	+	+																			LMX
8100	NT														0										LMX
8103		+	+													+	+	+	+			+	+	DP401	LMX