

REPORT OF THE 417th CELL EXCHANGE

AUGUST 5, 2020

B-cell Lines	575-576
Cells	1665-1668
Sera	1293-1296

B-cell Line Exchange #288

The results for B-cell Line Exchange #288 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We are appreciative of the generosity of Leiden University Medical Centre, Leiden, The Netherlands for providing the interesting cell examined in this study.

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

Ter-575. The consensus type for this cell from a donor of unknown ethnicity is DRB1*04:04-DRB1*16:01-DRB4*01:03-DRB5*01:01-DQA1*01:02-DQA1*03:03-DQB1*04:02-DQB1*05:02-DPA1*01:03-DPA1*02:01-DPB1*04:01-DPB1*09:01/A*03:01-A*68:02-B*07:02-B*35:01-C*04:01-C*07:02. One possible association present in this cell is B*35:01-C*04:01-DRB1*04:04-DQB1*04:02, observed in exclusively in Asian populations, with HF = 0.00044. The other association present may be B*07:02-C*07:02-DRB1*16:01-DQB1*05:02, observed in Caucasians, with HF = 0.00053.

Good agreement (< 90%) was achieved for all loci by labs reporting at high resolution. One lab (Wieten), observed the presence of a possible new allele: "In sample Bcel 575 a new DRB1 allele was found, identical to DRB1*04:04:01 with an insertion of a G in intron 3, changing positions 8291-8295 5x G into 6x G, performed by Sanger sequencing, so no homopolymer problem."

Ter-576. The consensus type for this cell from a Black donor is DRB1*12:02-DRB1*13:03-DRB3*01:01-DRB3*03:01-DQA1*05:05-DQA1*06:01-DQB1*03:01-DPA1*02:01-DPA1*03:01-DPB1*01:01-DPB1*39:01/A*24:07-A*34:02-B*35:05-B*51:01-C*04:01-C*16:01. One possible association present in this cell is B*51:01-C*16:01-DRB1*13:03-DQB1*03:01, observed in African Americans, with HF = 0.00402. The other association likely present, B*35:05-C*04:01-DRB1*12:02-DQB1*03:01, is common in Asians, with HF = 0.00528.

This cell was examined a number of times in the Exchange for class I as cells 549 (1988), 835 (1995), 900 (1996), and 963 (1998). It was also typed for class II in 1996 as Ter 185. In this present retyping, good agreement (< 90%), was achieved for all loci by labs reporting at high resolution.

Table 1: Summary of the 288th B-cell Line Exchange

Ter-575

Ter-575												
DNA Typing - class II	28 labs High; 22 labs low-DRB1	%(n)	20 labs High; 15 labs Low-DRB3/4/5	%(n)	22 labs High; 19 labs Low-DQA1	%(n)	27 labs High; 20 labs Low-DQB1	%(n)	16 labs High; 9 labs Low-DPA1	%(n)	25 labs High; 12 labs Low-DPB1	%(n)
	DRB1*04:04:01	32(9)	DRB4*01:03:01	30(6)	DQA1*01:02:02	23(5)	DQB1*04:02:01	26(7)	DPA1*01:03:01:02	6 (1)	DPB1*04:01:01	28(7)
	DRB1*04:04	68(19)	DRB4*01:03	70(14)	DQA1*01:02	77(17)	DQB1*04:02:01G	4 (1)	DPA1*01:03:01	25(4)	DPB1*04:01:01G	12(3)
	DRB1*04	100(22)	DRB4*01	73(11)	DQA1*01	100(19)	DQB1*04:02	70(19)	DPA1*01:03:01G	6 (1)	DPB1*04:01P	4 (1)
			DRB4*PRESENT	27(4)			DQB1*04	100(20)	DPA1*01:03	63(10)	DPB1*04:01	56(14)
									DPA1*01	100(9)	DPB1*04(DP401)	42(5)
											DPB1*04	58(7)
DNA Typing - class I	28 labs High; 22 labs low-DRB1	%(n)	20 labs High; 15 labs Low-DRB3/4/5	%(n)	22 labs High; 19 labs Low-DQA1	%(n)	27 labs High; 20 labs Low-DQB1	%(n)	16 labs High; 9 labs Low-DPA1	%(n)	25 labs High; 12 labs Low-DPB1	%(n)
	DRB1*16:01:01	32(9)	DRB5*01:01:01	30(6)	DQA1*03:03:01	23(5)	DQB1*05:02:01	30(8)	DPA1*02:01:01:02	6 (1)	DPB1*09:01:01	28(7)
	DRB1*16:01	68(19)	DRB5*01:01:01G	5 (1)	DQA1*03:03	73(16)	DQB1*05:02	70(19)	DPA1*02:01:01	25(4)	DPB1*09:01:01G	12(3)
	DRB1*16	100(22)	DRB5*01:01	65(13)	DQA1*03:01	4 (1)	DQB1*05	100(20)	DPA1*02:01:01G	13(2)	DPB1*09:01P	4 (1)
			DRB5*01	73(11)	DQA1*03	100(19)			DPA1*02:01	56(9)	DPB1*09:01	56(14)
			DRB5*PRESENT	27(4)					DPA1*02	100(9)	DPB1*09	100(12)
DNA Typing - class I	22 labs High; 19 labs low- A	%(n)	22 labs High; 19 labs low- B	%(n)	22 labs High; 19 labs low- C	%(n)						
	A*03:01:01:01	9 (2)	B*07:02:01:01	9 (2)	C*04:01:01	36(8)						
	A*03:01:01	27(6)	B*07:02:01	27(6)	C*04:01	64(14)						
	A*03:01	64(14)	B*07:02	64(14)	C*04	100(19)						
	A*03	100(19)	B*07	100(19)								
DNA Typing - class I	22 labs High; 19 labs low- A	%(n)	22 labs High; 19 labs low- B	%(n)	22 labs High; 19 labs low- C	%(n)						
	A*68:02:01:01	9 (2)	B*35:01:01:05	4 (1)	C*07:02:01:03	4 (1)						
	A*68:02:01	27(6)	B*35:01:01	32(7)	C*07:02:01	32(7)						
	A*68:02	64(14)	B*35:01	64(14)	C*07:02	64(14)						
	A*68	100(19)	B*35	100(19)	C*07	100(19)						

Table 3a: Individual laboratory results for B-cell #575 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04	*09	SSP SSO	
725	*04	*16	4*PRESENT	5*PRESENT	*01	*03	*04	*05					SSP SSO	
731	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04	*09	SSO SBT NGS RT-PCR	
747	*04	*16	4*PRESENT	5*PRESENT	*01	*03	*04	*05	*01	*02	*04	*09	SSP SSO NGS	
771	*04	*16			*01	*03	*04	*05					SSO NGS	
774	*04	*16	4*01	5*01	*01	*03	*04	*05			*04(DP401)	*09	SSP SSO	
792	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04	*09	SSO NGS	
793	*04	*16	4*PRESENT	5*PRESENT	*01	*03	*04	*05			*04(DP401)	*09	SSP SSP SSO NGS	
794	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04	*09	RT-PCR	
2400	*04	*16	4*01	5*01	*01	*03	*04	*05			*04	*09	SSO NGS	
2847	*04	*16											SSO	
3519	*04	*16			*01	*03	*04	*05	*01	*02	*04(DP401)	*09	SSP NGS RT-PCR	
4079	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04(DP401)	*09	SSO	
5130	*04	*16	4*01	5*01	*01	*03	*04	*05			*04	*09	SSO NGS	
5214	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04(DP401)	*09	RT-PCR	
5219	NT													
5451	*04	*16	4*01	5*01	*01	*03	*04	*05					SSO SBT	
5462	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	NT	NT	SSO	
5488													SSO NGS	
5642	*04	*16	4*PRESENT	5*PRESENT			*04	*05					SSP	
6649	*04	*16											SSO	
8029	*04	*16			*01	*03	*04	*05					SSO	
8043	*04	*16			*01	*03	*04	*05					SSP SSO	
8068	*04	*16			*01	*03	*04	*05					SSO	

Table 3b: Individual laboratory results for B-cell #575 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	SSO SBT NGS	
278	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	SSP SSO	
731	*04:04:01	*16:01:01					*04:02:01G	*05:02:01			*04:01:01G	*09:01:01G	SSO SBT NGS RT-PCR	
747	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02:02	*03:03:01	*04:02:01	*05:02:01	*01:03:01:02	*02:01:01:02	*04:01:01	*09:01:01	SSP SSO NGS	DPB1*899:01 DQB1*05:241 DPB1*350:01
762	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	NGS	DPB1*350:01 DPB1*899:01
771	*04:04	*16:01					*04:02	*05:02					SSO NGS	
774	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02			*04:01	*09:01	SSP SSO	DRB1*04:118 DRB1*04:120N DRB1*04:121 DRB1*04:149 DRB1*16:13N DRB4*01:09 DRB4*01:10 DRB5*01:16 DRB35*01:40
792	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	SSO NGS	DPB1*350:01 DPB1*899:01
793					*01:02	*03:03					*04:01	*09:01	SSP	
794	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02	*03:03	*04:02:01	*05:02:01	NT	NT	*04:01:01	*09:01:01	SSP SSO NGS RT-PCR	
2344	*04:04:01	*16:01:01	NT	NT	NT	NT	*04:02:01	*05:02:01	NT	NT	*04:01:01	*09:01:01	NGS	DPB1*350:01 DPB1*899:01
2400	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02			*04:01	*09:01	SSO NGS	DPB1*350:01 DPB1*899:01
3135	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:01	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01		DQA1*03:02 DQA1*03:03
3224	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01:01G	*09:01:01G		
3511	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	SSP SSO	
3519	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01P	*09:01P	SSP NGS RT-PCR	DPB1*350:01 DPB1*899:01
3753	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02:02	*03:03:01	*04:02:01	*05:02:01	*01:03:01	*02:01:01	*04:01:01	*09:01:01	NGS	DPB1*350:01 DPB1*899:01
3966	*04:04	*16:01	4*01:03	5*01:01			*04:02	*05:02					SSP	
4251	*04:04	*16:01	4*01:03	5*01:01:01G	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01:01G	*04:01:01G	*09:01:01G	NGS	
4337	*04:04	*16:01					*04:02	*05:02			*04:01	*09:01	SSP SBT NGS	
5130	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02			*04:01	*09:01	SSO NGS	DPB1*350:01 DPB1*899:01
5133	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02:02	*03:03:01	*04:02:01	*05:02:01	*01:03:01	*02:01:01	*04:01:01	*09:01:01	NGS	DPB1*350:01 DPB1*899:01
5219	NT													

Table 3b: Individual laboratory results for B-cell #575 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5451	*04:04:01	*16:01:01											SSO SBT	
														DPB1*1042:01 DPB1*1048:01 DPB1*1060:01 DPB1*1064:01 DPB1*1074:01 DPB1*1081:01 DPB1*1086:01 DPB1*797:01 DPB1*899:01 DPB1*977:01 DPB1*1043:01 DPB1*213:01 DPB1*334:01 DPB1*350:01 DPB1*523:01 DPB1*702:01 DPB1*742:01 DPB1*743:01N DPB1*750:01+
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*04:01	*09:01	SSO	
5488	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02:02	*03:03:01	*04:02:01	*05:02:01	*01:03:01	*02:01:01	*04:01:01	*09:01:01	SSO NGS	DPB1*350:01 DPB1*899:01
5642	*04:04	*16:01					*04:02	*05:02					SSP	
8021	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	SSO NGS	
8043	*04:04	*16:01			*01:02	*03:03	*04:02	*05:02					SSP SSO	
8086	*04:04	*16:01			*01:02	*03:03	*04:02	*05:02	*01:03:01G	*02:01:01G	*04:01	*09:01	SSO SBT	
8122	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02:02	*03:03:01	*04:02:01	*05:02:01	*01:03:01	*02:01:01	*04:01:01	*09:01:01	NGS	DPB1*939:01

Table 4: Individual laboratory results for B-cell #575 - Class I

Table 4: Individual laboratory results for B-cell #575 - Class I														
Low resolution							High resolution							
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
230							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO SBT NGS	
278	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSP SSO	
725	*03	*68	*07	*35	*04	*07							SSP SSO	
731	*03	*68	*07	*35	*04	*07	*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSO SBT NGS RT-PCR	
747	*03	*68	*07	*35	*04	*07	*03:01:01:01	*68:02:01:01	*07:02:01:01	*35:01:01:05	*04:01:01	*07:02:01:03	SSP SSO NGS	
771	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO NGS	
774	*03	*68	*07	*35	*04	*07							SSP SSO	
792	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO NGS	
793	*03	*68	*07	*35	*04	*07							SSP	
794	*03	*68	*07	*35	*04	*07							SSP SSO NGS RT-PCR	
794							*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSP SSO NGS RT-PCR	
2344							*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	NGS	
2400	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO NGS	
2847	*03	*68	*07	*35	*04	*07							SSO	
3135							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02		C*04:09N
3224							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02		
3511							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSP SSO	
3519	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSP NGS RT-PCR	
3753							*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	NGS	
3966	*03	*68	*07	*35	*04	*07							SSP	
4079	*03	*68	*07	*35	*04	*07							SSO	
4251							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	NGS	
4337							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSP SBT NGS	
5130	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO NGS	
5133							*03:01:01:01	*68:02:01:01	*07:02:01:01	*35:01:01	*04:01:01	*07:02:01	NGS	
5214	*03	*68	*07	*35	*04	*07							RT-PCR	
5219	NT													
5462	*03	*68	*07	*35	*04	*07	NT	NT	NT	NT	NT	NT	SSO	
5488							*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSO NGS	
8021							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO NGS	
8029	*03	*68	*07	*35	*04	*07							SSO	
8068	*03	*68	*07	*35	*04	*07							SSO	
8086							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO SBT	
8122							*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	NGS	

Table 5a: Individual laboratory results for B-cell #576 - Class II

		Low resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	Vander Horn ,	*12	*13	3*01	3*03	*05	*06	*03	*03	*02	*03	*01	*39	SSP SSO	
725	Lardy , N.M.	*12	*13	3*PRESENT		*05	*06	*03						SSP SSO	
731	Loewenthal ,	*12	*13	3*01	3*03	*05	*06	*03	*03	*02	*03	*01	*39	SSO SBT NGS	
747	Villard , Jean	*12	*13	3*PRESENT	3*PRESENT	*05	*06	*03	*03	*02	*03	*01	*39	RT-PCR	
771	Benedek , Gil	*12	*13			*05	*06	*03						SSP SSO NGS	
774	Cecka , J. Mid	*12	*13	3*01	3*03	*05	*06	*03				*01	*39	SSP SSO	
792	Gandhi , Mani	*12	*13	3*01	3*03	*05	*06	*03	*03	*02	*03	*01	*39	SSO NGS	
793	Rubocki , Ron	*12	*13	3*01	3*03	*05	*06	*03				*01	*39	SSP	
794	Jaatinen , Tai	*12	*13	3*01	3*03	*05	*06	*03		*02	*03	*01	*39	SSP SSO NGS	
2400	Liu , Chang	*12	*13	3*01	3*03	*05	*06	*03				*01	*39	RT-PCR	
2847	Wakita , Atsus	*12	*13											SSO NGS	
3519	Renac , Virgin	*12	*13			*05	*06	*03		*02	*03	*01	*39	SSP	
4079	Fort , Marylise	*12	*13	3*01	3*03	*05	*06	*03		*02	*03	*01	*39	RT-PCR	
5130	Costeas , Pau	*12	*13	3*01	3*03	*05	*06	*03	*03			*01	*39	SSO	
5214	Gebel , Howar	*12	*13	3*01	3*03	*05	*06	*03(DQ7)	*03	*02	*03	*01	*39	SSO NGS	
5219	Daniel , Dolly	NT												RT-PCR	
5451	Wieten , Lotte	*12	*13	3*01	3*03	*05	*06	*03						SSP	
5462	Arnold , Paula	*12	*13	3*01	3*03	*05	*06	*03		*02	*03	NT	NT	SSO SBT	
5488	Ward , William							*03						SSO	
5642	Stylianou , Ca	*12	*13	3*PRESENT				*03						SSO NGS	
6649	Park , Seo-Jin	*12	*13											SSP	
8029	Tarigopula , A	*12	*13			*05	*06	*03	*03					SSO	
8043	Gideoni , Osn	*12	*13			*05	*06	*03						SSO	
8068	Shanmugam ,	*12	*13			*05	*06	*03						SSP SSO	
						*05	*06	*03						SSO	

Table 5b: Individual laboratory results for B-cell #576 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01	SSO SBT NGS	
278	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01	SSP SSO	
731	*12:02:01	*13:03:01					*03:01:01G	*03:01:01G			*01:01:01	*39:01	SSO SBT NGS RT-PCR	
747	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05:01	*06:01:01	*03:01	*03:01	*02:01:02	*03:01:01	*01:01:01	*39:01:01	SSP SSO NGS	DQB1*03:297
762	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01		*02:01		*01:01	*39:01	NGS	
771	*12:02	*13:03					*03:01						SSO NGS	
774	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01				*01:01	*39:01	SSP SSO	DRB1*12:32 DRB1*12:37 DRB1*12:43 DRB1*12:45 DRB1*13:152 DQB1*03:73 DQB1*03:92 DQB1*03:93
792	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01	SSO NGS	
793					*05:05	*06:01					*01:01	*39:01	SSP	
794	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05	*06:01	*03:01:01		NT	NT	*01:01:01	*39:01:01	SSP SSO NGS RT-PCR	
2344	*12:02:01	*13:03:01	NT	NT	NT	NT	*03:01:01	*03:01:01	NT	NT	*01:01:01	*39:01	NGS	
2400	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01				*01:01	*39:01	SSO NGS	DQB1*03:276N
3135	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01		DQA1*05:09
3224	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01		
3511	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01	SSP SSO	
3519	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01	SSP NGS RT-PCR	
3753	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05:01	*06:01:01	*03:01	*03:01	*02:01:02	*03:01:01	*01:01:01	*39:01:01	NGS	DQB1*03:297
3966	*12:02	*13:03	3*01:01	3*03:01			*03:01	*03:01					SSP	
4251	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01:01G	*03:01	*02:01	*03:01:01G	*01:01	*39:01	NGS	
4337	*12:02	*13:03					*03:01	*03:01			*01:01	*39:01	SSP SBT NGS	
5130	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01			*01:01	*39:01	SSO NGS	
5133	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05:01	*06:01:01	*03:01:01		*02:01:02	*03:01:01	*01:01:01	*39:01:01	NGS	
5219	NT													
5451	*12:02:01	*13:03:01											SSO SBT	

Table 5b: Individual laboratory results for B-cell #576 - Class II

High resolution															
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
														DPB1*584:01 DPB1*867:01N DPB1*04:01 DPB1*733:01 DPB1*800:01N DPB1*807:01 DPB1*862:01N DPB1*953:01 DPB1*969:01 DPB1*979:01 DPB1*984:01N DPB1*998:01 DPB1*999:01 DPB1*1038:01Q DPB1*1050:01 DPB1*1068:01 DPB1*1073:01 DPB1*162:01+	
5462	NT	NT	NT	NT	NT	NT	NT			NT	NT	*01:01	*39:01	SSO	
5488	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05:01	*06:01:01				*02:01:02	*03:01:01	*01:01:01	*39:01:01	SSO NGS	
5642	*12:02	*13:03					*03:01							SSP	
8021	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01			*02:01	*03:01	*01:01	*39:01	SSO NGS	
8043	*12:02	*13:03			*05:05	*06:01	*03:01							SSP SSO	
8086	*12:02	*13:03			*05:05	*06:01	*03:01	*03:01		*02:01	*03:01:01G	*01:01	*39:01	SSO SBT	
8122	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05:01	*06:01:01	*03:01:01			*02:01:02	*03:01:01	*01:01:01	*39:01:01	NGS	

Table 6: Individual laboratory results for B-cell #576 - Class I

Table 6: Individual laboratory results for B-cell #576 - Class I														
Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
230							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO SBT NGS	
278	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSP SSO	
725	*24	*34	*35	*51	*04	*16							SSP SSO	
731	*24	*34	*35	*51	*04	*16	*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	SSO SBT NGS RT-PCR	
747	*24	*34	*35	*51	*04	*16	*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	SSP SSO NGS	
762													NGS	
771	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO NGS	
774	*24	*34	*35	*51	*04	*16			*35:05				SSP SSO	
792	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO NGS	
793	*24	*34	*35	*51	*04	*16							SSP	
794	*24	*34	*35	*51	*04	*16	*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	SSP SSO NGS RT-PCR	
2344							*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	NGS	
2400	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO NGS	
2847	*24	*34	*35	*51	*04	*16							SSO	
3135							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01		C*04:09N
3224							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01		
3511							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSP SSO	
3519	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSP NGS RT-PCR	
3753							*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	NGS	
3966	*24	*34	*35	*51	*04	*16							SSP	
4079	*24	*34	*35	*51	*04	*16							SSO	
4251							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	NGS	
4337							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSP SBT NGS	
5130	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO NGS	
5133							*24:07:01:01	*34:02:01:01	*35:05:01	*51:01:01:10	*04:01:01:14	*16:01:01:01	NGS	
5214	*24	*34	*35	*51	*04	*16							RT-PCR	
5219	NT													
5462	*24	*34	*35	*51	*04	*16	NT	NT	NT	NT	NT	NT	SSO	
5488							*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	SSO NGS	
8021							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO NGS	
8029	*24	*34	*35	*51	*04	*16							SSO	
8068	*24	*34	*35	*15	*04	*16							SSO	
8086							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO SBT	
8122							*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	NGS	

CELL EXCHANGE #417

The results for Cell Exchange #417 are summarized in Table 7 - 11. Molecular typing results for individual laboratories are listed in Tables 12 – 19 for each sample and individual serological results for each sample are listed in Table 20. Twelve labs submitted low and/or high resolution class II results for

this study. We would like to thank each of them for sharing their results and encourage other labs to do so as well so that we may begin to grade the class II assignments.

Cell 1665. A*11:01-B*13:01-B*56:04-C*01:02-C*04:06 is the reported class I type for this cell from a Filipino donor. Likely class I associations present in this cell are A*11:01-B*56:04-C*01:02 and A*11:01-B*13:01-C*04:06. Each are exclusively observed in Asian populations, with respective HF = 0.00059 and 0.00075.

This cell was typed previously in the Exchange as cells 1475 (2012), 1532 (2014), and 1621 (2018). In this most recent study, good agreement (100%) was achieved among labs for each class I allele assignment. DRB1*11:01-DRB1*12:02-DRB3*02:02-DRB3*03:01-DQA1*05:05-DQA1*06:01-DQB1*03:01-DPA1*02:02-DPB1*02:02-DPB1*05:01 is the reported class II type for this sample.

Cell 1666. A*29:02-A*68:01-B*35:03-B*51:01-C*04:01-C*14:02 is the reported class I type for this cell from a Hispanic donor. Class I associations likely present in cell are A*29:02-B*35:03-C*04:01 and A*68:01-B*51:01-C*14:02, with respective HF = 0.00024 and 0.00133, in Hispanics.

Good agreement (100%) was achieved among labs for each class I allele assignment by labs reporting at high resolution. DRB1*01:01-DRB1*16:01-DRB5*02:02-DQA1*01:01-DQA1*01:02-DQB1*05:01-DQB1*05:02-DPA1*01:03-DPA1*02:01-DPB1*04:01-DPB1*09:01 is the reported class II type for this sample.

Cell 1667. A*68:01-A*68:02-B*53:01-B*58:02-C*04:01-C*06:02 was the reported class I type for this cell from a Black donor. One likely class I association present in this cell is A*68:01-B*58:02-C*06:02, observed exclusively in African Americans, with HF = 0.01215. The other likely association present, A*68:02-B*53:01-C*04:01, is the 9th most commonly observed association in African Americans, with HF = 0.01290.

This cell was previously typed as cell 1608 (2017). In this present retyping, good agreement ($\geq 90\%$) was once again achieved for class I allele assignments by labs reporting at high resolution. DRB1*12:01-DRB1*13:02-DRB3*02:02-DRB3*03:01-DQA1*01:02-DQA1*01:05-DQB1*05:01-DQB1*06:09-DPA1*01:03-DPA1*02:01-DPB1*02:01-DPB1*13:01 is the reported class II type for this sample.

Cell 1668. A*01:02-A*24:02-B*40:02-B*49:01-C*03:05-C*07:01 is the reported class I type for this cell from a Hispanic donor. Likely class I associations present in this cell are A*01:02-B*40:02-C*03:05 and A*24:02-B*49:01-C*07:01, with respective HF = 0.00025 and 0.00129, in Hispanics.

This cell was previously examined in the Exchange as cells 1498 (2013) and 1545 (2015). In this current study, good agreement (100%) was achieved for each class I allele assignment by labs reporting at high resolution. DRB1*04:07-DRB1*10:01-DRB4*01:03-DQA1*01:05-DQA1*03:01-DQB1*03:02-DQB1*05:01-DPA1*01:03-DPA1*02:01-DPB1*04:02-DPB1*13:01 is the reported class II type for this sample.

Table 8: Summary of the 417th Cell Exchange - DNA Typing

Cell 1666

DNA Typing - class I		12 labs High; 16 labs low- A		12 labs High; 16 labs low- B		11 labs High; 15 labs low- C							
	%(n)		%(n)		%(n)		%(n)						
A*29:02:01:01	25(3)	B*35:03:01:03	17(2)	C*04:01:01:14	9 (1)								
A*29:02:01	8 (1)	B*35:03:01	17(2)	C*04:01:01	27(3)								
A*29:02	67(8)	B*35:03	66(8)	C*04:01:01G	9 (1)								
A*29	100(16)	B*35	100(16)	C*04:01	55(6)								
				C*04	100(15)								
DNA Typing - class I		12 labs High; 16 labs low- A		12 labs High; 16 labs low- B		11 labs High; 15 labs low- C							
	%(n)		%(n)		%(n)		%(n)						
A*68:01:02:01	25(3)	B*51:01:01:01	17(2)	C*14:02:01:01	9 (1)								
A*68:01:02	8 (1)	B*51:01:01	17(2)	C*14:02:01	27(3)								
A*68:01	67(8)	B*51:01P	8 (1)	C*14:02	64(7)								
A*68	100(16)	B*51:01	58(7)	C*14	100(15)								
		B*51	100(16)										
DNA Typing - class II		8 labs High; 9 labs low-DRB1		5 labs High; 6 labs low-DRB3/4/5		4 labs High; 7 labs Low-DQA1		8 labs High; 8 labs Low-DQB1		4 labs High; 5 labs Low-DPA1		6 labs High; 5 labs Low-DPB1	
	%(n)		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
DRB1*01:01:01	38(3)	DRB5*02:02:01	40(2)	DQA1*01:01:01	50(2)	DQB1*05:01:01	25(2)	DPA1*01:03:01:02	25(1)	DPB1*04:01:01	50(3)		
DRB1*01:01P	12(1)	DRB5*02:02	60(3)	DQA1*01:01	50(2)	DQB1*05:01	75(6)	DPA1*01:03:01	25(1)	DPB1*04:01P	17(1)		
DRB1*01:01	50(4)	DRB5*02	17(1)	DQA1*01	100(7)	DQB1*05	100(8)	DPA1*01:03	50(2)	DPB1*04:01	33(2)		
DRB1*01	100(9)	DRB5*PRESENT	83(5)					DPA1*01	100(5)	DPB1*04(DP401)	60(3)		
										DPB1*04	40(2)		
DNA Typing - class II		8 labs High; 9 labs low-DRB1		4 labs High-DQA1		8 labs High-DQB1		4 labs High; 5 labs Low-DPA1		6 labs High; 5 labs Low-DPB1			
	%(n)		%(n)		%(n)		%(n)		%(n)		%(n)		
DRB1*16:01:01	38(3)	DQA1*01:02:02	50(2)	DQB1*05:02:01	25(2)	DPA1*02:01:01:02	25(1)	DPB1*09:01:01	50(3)				
DRB1*16:01	62(5)	DQA1*01:02	50(2)	DQB1*05:02	75(6)	DPA1*02:01:01	25(1)	DPB1*09:01P	17(1)				
DRB1*16	100(9)					DPA1*02:01	50(2)	DPB1*09:01	33(2)				
						DPA1*02	100(5)	DPB1*09	100(5)				

Table 9: Summary of the 417th Cell Exchange - DNA Typing

Cell 1667

DNA Typing - class I	<u>11 labs High; 14 labs low- A</u>	%(n)	<u>11 labs High; 14 labs low- B</u>	%(n)	<u>10 labs High; 13 labs low- C</u>	%(n)
	A*68:01:01:02	18(2)		B*53:01:01:01	18(2)	C*04:01:01
A*68:01:01	9 (1)		B*53:01:01	9 (1)	C*04:01:01G	10(1)
A*68:01	73(8)		B*53:01P	9 (1)	C*04:01	60(6)
A*68	100(14)		B*53:01	64(7)	C*04	100(13)
			B*53	100(14)		
<u>11 labs High - A</u>	%(n)	<u>11 labs High; 14 labs low- B</u>	%(n)	<u>10 labs High; 13 labs low- C</u>	%(n)	
A*68:02:01:01	18(2)	B*58:02:01:01	18(2)	C*06:02:01:01	10(1)	
A*68:02:01	9 (1)	B*58:02:01	9 (1)	C*06:02:01	20(2)	
A*68:02	73(8)	B*58:02	73(8)	C*06:02	70(7)	
A*68		B*58	100(14)	C*06	100(13)	

DNA Typing - class II	<u>7 labs High; 7 labs low-DRB1</u>	%(n)	<u>4 labs High; 4 labs low-DRB3/4/5</u>	%(n)	<u>2 labs High; 6 labs Low-DQA1</u>	%(n)	<u>6 labs High; 6 labs Low-DQB1</u>	%(n)	<u>2 labs High; 4 labs Low-DPA1</u>	%(n)	<u>5 labs High; 3 labs Low-DPB1</u>	%(n)
	DRB1*12:01:01	29(2)		DRB3*02:02:01	25(1)	DQA1*01:02:01	50(1)	DQB1*05:01:01	33(2)	DPA1*01:03:01	50(1)	DPB1*02:01:02
DRB1*12:01P	29(2)		DRB3*02:02	75(3)	DQA1*01:02	50(1)	DQB1*05:01	67(4)	DPA1*01:03	50(1)	DPB1*02:01P	20(1)
DRB1*12:01	42(3)		DRB3*02	100(4)	DQA1*01	100(6)	DQB1*05	100(6)	DPA1*01	100(4)	DPB1*02:01	40(2)
DRB1*12	100(7)										DPB1*02(DP201)	100(3)
<u>7 labs High; 7 labs low-DRB1</u>	%(n)	<u>4 labs High; 4 labs low-DRB3/4/5</u>	%(n)	<u>2 labs High-DQA1</u>	%(n)	<u>6 labs High; 6 labs Low-DQB1</u>	%(n)	<u>2 labs High; 4 labs Low-DPA1</u>	%(n)	<u>5 labs High; 3 labs Low-DPB1</u>	%(n)	
DRB1*13:02:01	29(2)	DRB3*03:01:01	25(1)	DQA1*01:05:01	50(1)	DQB1*06:09:01	33(2)	DPA1*02:01:01	50(1)	DPB1*13:01:01	20(1)	
DRB1*13:02	71(5)	DRB3*03:01	75(3)	DQA1*01:05	50(1)	DQB1*06:09	67(4)	DPA1*02:01	50(1)	DPB1*13:01P	40(2)	
DRB1*13	100(7)	DRB3*03	100(4)			DQB1*06	100(6)	DPA1*02	100(4)	DPB1*13:01	40(2)	
										DPB1*13	100(3)	

Table 10: Summary of the 417th Cell Exchange - DNA Typing

Cell 1668

DNA Typing - class I		11 labs High; 14 labs low- A	%(n)	11 labs High; 14 labs low- B	%(n)	11 labs High; 13 labs low- C	%(n)						
		A*01:02:01	9 (1)	B*40:02:01	27(3)	C*03:05	100(11)						
A*01:02	91(10)	B*40:02	73(8)	C*03(Cw10)	15(2)								
A*01	100(14)	B*40(B61)	14(2)	C*03	85(11)								
		B*40	86(12)										
DNA Typing - class I		11 labs High; 14 labs low- A	%(n)	11 labs High; 14 labs low- B	%(n)	11 labs High; 13 labs low- C	%(n)						
		A*24:02:01:06	18(2)	B*49:01:01	27(3)	C*07:01:01:16	9 (1)						
A*24:02:01	9 (1)	B*49:01	73(8)	C*07:01:01	18(2)								
A*24:02	73(8)	B*49	93(13)	C*07:01	73(8)								
A*24	100(14)	B*50	7 (1)	C*07	100(13)								
DNA Typing - class II		7 labs High; 7 labs low-DRB1	%(n)	4 labs High; 4 labs low-DRB3/4/5	%(n)	2 labs High; 6 labs Low-DQA1	%(n)	6 labs High; 6 labs Low-DQB1	%(n)	2 labs High; 4 labs Low-DPA1	%(n)	5 labs High; 3 labs Low-DPB1	%(n)
		DRB1*04:07:01	29(2)	DRB4*01:03:01	25(1)	DQA1*01:05:01	50(1)	DQB1*03:02:01	17(1)	DPA1*01:03:01	50(1)	DPB1*04:02:01	40(2)
DRB1*04:07	71(5)	DRB4*01:03	75(3)	DQA1*01:05	50(1)	DQB1*03:02P	17(1)	DPA1*01:03	50(1)	DPB1*04:02	60(3)		
DRB1*04	100(7)	DRB4*01	100(4)	DQA1*01	100(6)	DQB1*03:02	66(4)	DPA1*01	100(4)	DPB1*04(DP402)	100(3)		
							DQB1*03	100(6)					
DNA Typing - class II		7 labs High; 7 labs low-DRB1	%(n)	4 labs High; 4 labs low-DRB3/4/5	%(n)	2 labs High; 6 labs Low-DQA1	%(n)	6 labs High; 6 labs Low-DQB1	%(n)	2 labs High; 4 labs Low-DPA1	%(n)	5 labs High; 3 labs Low-DPB1	%(n)
		DRB1*10:01:01	29(2)			DQA1*03:01:01	50(1)	DQB1*05:01:01	33(2)	DPA1*02:01:01	50(1)	DPB1*13:01:01	20(1)
DRB1*10:01	71(5)			DQA1*03:01	50(1)	DQB1*05:01	67(4)	DPA1*02:01	50(1)	DPB1*13:01P	40(2)		
DRB1*10	100(7)			DQA1*03	100(6)	DQB1*05	100(6)	DPA1*02	100(4)	DPB1*13:01	40(2)		
										DPB1*13	100(3)		

Table 11. Summary of the 417th Cell Exchange (Cell #1665- 1668)

Serological typing

(Filipino) Cell 1665 (6 Samples Typed)	
A11	83.3%
A11.1	16.7%
	[100.0%]
B13	100.0%
B56	100.0%
	[100.0%]
Cw1	16.7%
Bw4	100.0%
Bw6	100.0%
Others Found	

(Hispanic) Cell 1666 (7 Samples Typed)	
A29	100.0%
	[100.0%]
A68	100.0%
	[100.0%]
B35	100.0%
B51	100.0%
	[100.0%]
Cw4	14.3%
	[14.3%]
Bw4	100.0%
Bw6	100.0%
Others Found	

(Black) Cell 1667 (5 Samples Typed)	
A68	100.0%
	[100.0%]
B53	100.0%
B58	100.0%
	[100.0%]
Cw4	20.0%
	[20.0%]
Bw4	100.0%
Others Found	
Bw6	20.0%

(Hispanic) Cell 1668 (5 Samples Typed)	
A1	100.0%
A24	100.0%
	[100.0%]
B61	80.0%
	[80.0%]
B49	100.0%
	[100.0%]
Cw3	20.0%
	[20.0%]
Bw4	100.0%
Bw6	100.0%
Others Found	
B60	20.0%

Table 12. Individual laboratory results for Cell #1665 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*11	*13	*56	*01	*04	*11:01	*11:01	*13:01	*56:04	*01:02	*04:06	SSP SSO	
725	*11		*13	*56	*01	*04							SSO	
731	*11	*11	*13	*56	*01	*04	*11:01:01	*11:01:01	*13:01:01	*56:04:01	*01:02:01	*04:06:01	SSO SBT NGS	
745							*11:01:01:01		*13:01:01	*56:04:01	*01:02:01	*04:06:01	SSP SBT NGS	
747	*11	*11	*13	*56	*01	*04	*11:01:01:01	*11:01:01:01	*13:01:01:01	*56:04	*01:02:01:01	*04:06	SSP SSO NGS	
762							*11:01		*13:01	*56:04	*01:02	*04:06	NGS	
771	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSO NGS	
774	*11		*13	*56	*01	*04								
3186	*11		*13	*56	*01	*04							SSO	
														C*01:185Q A*11:347N A*11:353 A*11:263 A*11:270 A*11:278 A*11:280 A*11:295 A*11:303 A*11:306 A*11:313Q A*11:316 A*11:320 A*11:324 A*11:328 C*04:03 C*04:286 C*01:22 C*01:85 C*01:127 C*01:142 C*01:150 C*01:151 C*01:164 C*01:172 C*01:173 C*01:174 C*01:182
3545	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSP SSO SBT	
3808	*11	*11	*13	*56	*01	*04							SSO	
4079							*11:01		*13:01	*56:04	*01:02	*04:06	SSP NGS	
4251							*11:01	*11:01	*13:01	*56:04	*01:02	*04:06	NGS	
5133							*11:01:01:01		*13:01:01	*56:04:01	*01:02:01	*04:06:01	NGS	
5214	*11	*11	*13	*56	*01	*04							RT-PCR	
5462	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSO NGS	
5642	*11		*13	*56	*01	*04							SSP	
6649	*11		*13	*56									SSO	
8001	*11		*13	*56	*01	*04							SSP SSO	
8043	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSP SSO	
8103	NT													
8119	*11		*13	*56	*01	*04							SSP NGS RT-PCR	

Table 13a: Individual laboratory results for Cell #1665 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*11	*12	3*PRESENT	3*PRESENT	*05	*06	*03	*03	*02	*02	*02	*05	SSP SSO NGS	
771	*11	*12			*05	*06	*03						SSO NGS	
3186	*11	*12	3*02	3*03	*05	*06	*03		*02		*02(DP202)	*05	SSO	
3545	*11	*12											SSP SSO SBT	
3808	*11	*12	NT	NT	*05	*06	*03	*03	*02	*02	*02(DP202)	*05	SSO	
5214	*11	*12	3*02	3*03	*05	*06	*03	*03	*02	*02	*02(DP202)	*05	RT-PCR	
5462	*11	*12	3*02	3*03	*05	*06	*03	*03	*02		NT	NT	SSO NGS	
8001	*11	*12	3*02	3*03	*05	*06	*03						SSP SSO	
													SSP NGS	
8119	*11	*12	3*02	3*03			*03				*02	*05	RT-PCR	

Table 13b: Individual laboratory results for Cell #1665 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*11:01:01	*12:02:01					*03:01:01	*03:01			*02:02:01	*05:01:01	SSP SBT NGS	DQB1*03:297
747	*11:01:01	*12:02:01	3*02:02:01	3*03:01:03	*05:05:01	*06:01:01	*03:01	*03:01	*02:02:02	*02:02:02	*02:02:01	*05:01:01	SSP SSO NGS	DQB1*03:297
771	*11:01	*12:02					*03:01						SSO NGS	
3545	*11:01	*12:02											SSP SSO SBT	
4079	*11:01	*12:02	3*02:02	3*03:01	*05:05	*06:01	*03:01		*02:02		*02:02	*05:01	SSP NGS	
5133	*11:01:01	*12:02:01	3*02:02:01	3*03:01:03	*05:05:01	*06:01:01	*03:01:01		*02:02:02		*02:02:01	*05:01:01	NGS	DPB1*547:01 DPB1*744:01
5462	*11:01	*12:02	3*02:02	3*03:01	*05:05	*06:01	*03:01		*02:02		*02:02P	*05:01P	SSO NGS	DPB1*547:01 DPB1*744:01
8001	*11:01	*12:02	3*02:02	3*03:01		*06:01	*03:01				*02:02	*05:01	SSP SSO	
													SSP NGS	
8119							*03:01						RT-PCR	

Table 14. Individual laboratory results for Cell #1666 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*29	*68	*35	*51	*04	*14	*29:02	*68:01	*35:03	*51:01	*04:01	*14:02	SSP SSO	
725	*29	*68	*35	*51	*04	*14							SSO	
731	*29	*68	*35	*51	*04	*14	*29:02:01	*68:01:02	*35:03:01	*51:01:01	*04:01:01	*14:02:01	SSO SBT NGS	
745							*29:02:01:01	*68:01:02:01	*35:03:01:03	*51:01:01	*04:01:01	*14:02:01	SSP SBT NGS	
747	*29	*68	*35	*51	*04	*14	*29:02:01:01	*68:01:02:01	*35:03:01	*51:01:01:01	*04:01:01	*14:02:01	SSP SSO NGS	
762							*29:02	*68:01	*35:03	*51:01	*04:01	*14:02	NGS	
771	*29	*68	*35	*51	*04	*14	*29:02	*68:01	*35:03	*51:01	*04:01	*14:02	SSO NGS	
774	*29	*68	*35	*51	*04	*14								
3186	*29	*68	*35	*51	*04	*14							SSO	
														A*29:134 A*29:135 B*35:344 B*35:399 B*35:434 B*35:442 B*35:457 B*51:269 B*51:270 B*51:271 B*51:285 B*51:286 B*51:289 B*51:296 B*51:297 B*51:308 B*51:309 A*29:95 A*29:100 A*29:119 A*29:120 A*29:121 A*68:152 B*51:193 B*51:224 B*51:230 B*51:232 B*51:248 B*51:249 B*51:250 B*51:260 B*51:262
3545	*29	*68	*35	*51	*04	*14	*29:02	*68:01	*35:03	*51:01			SSP SSO SBT	
3808	*29	*68	*35	*51	*04	*14							SSO	
4079							*29:02	*68:01	*35:03	*51:01	*04:01	*14:02	SSP NGS	
4251							*29:02	*68:01	*35:03	*51:01	*04:01	*14:02	NGS	
5133							*29:02:01:01	*68:01:02:01	*35:03:01:03	*51:01:01:01	*04:01:01:14	*14:02:01:01	NGS	
5214	*29	*68	*35	*51	*04	*14							RT-PCR	
5462	*29	*68	*35	*51	*04	*14	*29:02	*68:01	*35:03	*51:01P	*04:01	*14:02	SSO NGS	B*51:289
5642	*29	*68	*35	*51	*04	*14							SSP	
6649	*29	*68	*35	*51									SSO	
8001	*29	*68	*35	*51	*04	*14							SSP SSO	
8043	*29	*68	*35	*51	*04	*14	*29:02	*68:01	*35:03	*51:01	*04:01:01G	*14:02	SSP SSO	
8103	NT													
8119	*29	*68	*35	*51	*04	*14							SSP NGS RT-PCR	

Table 15a: Individual laboratory results for Cell #1666 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*01	*16	5*PRESENT		*01	*01	*05	*05	*01	*02	*04	*09	SSP SSO NGS	
771	*01	*16			*01		*05	*05					SSO NGS	
3186	*01	*16	5*02		*01	*01	*05	*05	*01	*02	*04(DP401)	*09	SSO	
3545	*01	*16											SSP SSO SBT	
3808	*01	*16	NT	NT	*01	*01	*05	*05	*01	*02	*04(DP401)	*09	SSO	
5214	*01	*16	5*02		*01	*01	*05	*05	*01	*02	*04(DP401)	*09	RT-PCR	
5462	*01	*16	5*02		*01	*01	*05	*05	*01	*02	NT	NT	SSO NGS	
8001	*01	*16	5*02		*01		*05	*05					SSP SSO	
													SSP NGS	
8119	*01	*16	5*02				*05	*05			*04	*09	RT-PCR	

Table 15b: Individual laboratory results for Cell #1666 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*01:01:01	*16:01:01					*05:01	*05:02:01			*04:01:01	*09:01:01	SSP SBT NGS	
747	*01:01:01	*16:01:01	5*02:02:01		*01:01:01	*01:02:02	*05:01:01	*05:02	*01:03:01:02	*02:01:01:02	*04:01:01	*09:01:01	SSP SSO NGS	DQB1*05:241 DPB1*350:01 DPB1*899:01
771	*01:01	*16:01					*05:01	*05:02					SSO NGS	
3545	*01:01	*16:01											SSP SSO SBT	DRB1*01:100
4079	*01:01	*16:01	5*02:02		*01:01	*01:02	*05:01	*05:02	*01:03	*02:01	*04:01	*09:01	SSP NGS	
5133	*01:01:01	*16:01:01	5*02:02:01		*01:01:01	*01:02:02	*05:01:01	*05:02:01	*01:03:01	*02:01:01	*04:01:01	*09:01:01	NGS	DPB1*350:01 DPB1*899:01
5462	*01:01P	*16:01	5*02:02		*01:01	*01:02	*05:01	*05:02	*01:03	*02:01	*04:01P	*09:01P	SSO NGS	DPB1*350:01 DPB1*899:01 DRB1*01:100
8001	*01:01	*16:01	5*02:02				*05:01	*05:02			*04:01	*09:01	SSP SSO	
													SSP NGS	
8119							*05:01	*05:02					RT-PCR	

Table 16. Individual laboratory results for Cell #1667 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	SSP SSO	
725	*68		*53	*58	*04	*06							SSO	
731	*68	*68	*53	*58	*04	*06	*68:01:01	*68:02:01	*53:01:01	*58:02:01	*04:01:01	*06:02:01	SSO SBT NGS	
745							*68:01:01:02	*68:02:01:01	*53:01:01:01	*58:02:01:01	*04:01:01	*06:02:01:01	SSP SBT NGS	
747	NT						NT						SSP SSO NGS	
762							*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	NGS	A*68:27 A*68:39
771	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	SSO NGS	
774	*68	*68	*53	*58	*04	*06								
3186	*68	*68	*53	*58	*04	*06							SSO	
3545	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02			SSP SSO SBT	A*68:188 A*68:211 B*58:104 A*68:27 A*68:39 A*68:163 A*68:198 A*68:216N B*53:51 B*53:54
3808	*68	*68	*53	*58	*04	*06							SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
4251							*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	NGS	
5133							*68:01:01:02	*68:02:01:01	*53:01:01:01	*58:02:01:01	*04:01:01	*06:02:01	NGS	
5214	*68	*68	*53	*58	*04	*06							RT-PCR	
5462	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01P	*58:02	*04:01	*06:02	SSO NGS	B*53:54
5642	*68		*53	*58	*04	*06							SSP	
6649	*68		*53	*58									SSO	
8001	*68		*53	*58	*04	*06							SSP SSO	
8043	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02	*04:01:01G	*06:02	SSP SSO	
8103	NT													
8119							*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	SSP NGS RT-PCR	

Table 17a: Individual laboratory results for Cell #1667 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*12	*13			*01		*05	*06					SSO NGS	
774														
3186	*12	*13	3*02	3*03	*01	*01	*05	*06	*01	*02	*02(DP201)	*13	SSO	
3545	*12	*13											SSP SSO SBT	
3808	*12	*13	NT	NT	*01	*01	*05	*06	*01	*02	*02(DP201)	*13	SSO	
5214	*12	*13	3*02	3*03	*01	*01	*05	*06	*01	*02	*02(DP201)	*13	RT-PCR	
5462	*12	*13	3*02	3*03	*01	*01	*05	*06	*01	*02	NT	NT	SSO NGS	
8001	*12	*13	3*02	3*03	*01		*05	*06					SSP SSO	

Table 17b: Individual laboratory results for Cell #1667 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*12:01:01	*13:02:01					*05:01:01	*06:09:01			*02:01:02	*13:01	SSP SBT NGS	DPB1*107:01
747	NT												SSP SSO NGS	
771	*12:01	*13:02					*05:01	*06:09					SSO NGS	
3545	*12:01	*13:02											SSP SSO SBT	DRB1*12:10
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
5133	*12:01:01	*13:02:01	3*02:02:01	3*03:01:01	*01:02:01	*01:05:01	*05:01:01	*06:09:01	*01:03:01	*02:01:01	*02:01:02	*13:01:01	NGS	
5462	*12:01P	*13:02	3*02:02	3*03:01	*01:02	*01:05	*05:01	*06:09	*01:03	*02:01	*02:01P	*13:01P	SSO NGS	DPB1*352:01 DPB1*107:01 DPB1*133:01 DRB1*12:10
8001	*12:01	*13:02	3*02:02	3*03:01			*05:01	*06:09			*02:01	*13:01	SSP SSO	
8119	*12:01P	*13:02	3*02:02	3*03:01			*05:01	*06:09			*02:01	*13:01P	SSP NGS	
													RT-PCR	

Table 18. Individual laboratory results for Cell #1668 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*01	*24	*40	*49	*03	*07	*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSP SSO	
725	*01	*24	*40	*49	*03	*07							SSO	
731	*01	*24	*40	*49	*03	*07	*01:02	*24:02:01	*40:02:01	*49:01:01	*03:05	*07:01:01	SSO SBT NGS	
745							*01:02	*24:02:01:06	*40:02:01	*49:01:01	*03:05	*07:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	NGS	
771	*01	*24	*40	*49	*03	*07	*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSO NGS	
774	*01	*24	*40	*49	*03	*07								
3186	*01	*24	*40	*50	*03	*07							SSO	
														A*24:473Q A*24:474 A*24:479Q B*40:444 B*49:62 B*49:65 C*03:335 C*03:407 C*03:482 C*07:823 C*07:843 A*24:352 A*24:353 A*24:402 A*24:418 A*24:419 A*24:422 A*24:436 A*24:437 A*24:443 A*24:448N A*24:451 A*24:454 A*24:460 A*24:463 A*24:464 A*24:465 A*24:466 A*24:469 A*24:470 B*40:303 B*40:356 B*40:384 B*40:405 B*40:442 C*07:06 C*07:18 C*07:343 C*07:419 C*07:458 C*07:591 C*07:610 C*07:615 C*07:618 C*07:617 C*07:619 C*07:657 C*07:682 C*07:687 C*07:696 C*07:721 C*07:732 C*07:735 C*07:739 C*07:762 C*07:777 C*07:781 C*07:782 C*07:805 C*07:808N C*07:813 C*07:814
3545	*01	*24	*40	*49	*03	*07	*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSP SSO SBT	
3808	*01	*24	*40	*49	*03	*07							SSO	
4079							NT	NT	NT	NT	NT	NT	SSP NGS	
4251							*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	NGS	
5133							*01:02:01	*24:02:01:06	*40:02:01	*49:01:01	*03:05	*07:01:01:16	NGS	
5462							*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSO NGS	
5214	*01	*24	*40 (B61)	*49	*03 (Cw10)	*07							RT-PCR	
5462	*01	*24	*40	*49	*03	*07							SSO NGS	
5642	*01	*24	*40	*49	*03	*07							SSP	
6649	*01	*24	*40	*49									SSO	
8001	*01	*24	*40 (B61)	*49	*03 (Cw10)	*07							SSP SSO	
8043	*01	*24	*40	*49	*03	*07	*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSP SSO	
8103	NT													
8119							*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSP NGS RT-PCR	

Table 19a: Individual laboratory results for Cell #1668 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*04	*10			*01	*03	*03	*05					SSO NGS	
3186	*04	*10	4*01		*01	*03	*03	*05	*01	*02	*04(DP402)	*13	SSO	
3545	*04	*10											SSP SSO SBT	
3808	*04	*10	NT	NT	*01	*03	*03	*05	*01	*02	*04(DP402)	*13	SSO	
5214	*04	*10	4*01		*01	*03	*03	*05	*01	*02	*04(DP402)	*13	RT-PCR	
5462	*04	*10	4*01	NP	*01	*03	*03	*05	*01	*02	NT	NT	SSO NGS	
8001	*04	*10	4*01		*01	*03	*03	*05					SSP SSO	

Table 19b: Individual laboratory results for Cell #1668 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*04:07:01	*10:01:01					*03:02	*05:01:01			*04:02:01	*13:01	SSP SBT NGS	DQB1*03:289 DPB1*107:01
747	NT												SSP SSO NGS	
771	*04:07	*10:01					*03:02	*05:01					SSO NGS	
3545	*04:07	*10:01											SSP SSO SBT	DRB1*04:92
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
5133	*04:07:01	*10:01:01	4*01:03:01		*01:05:01	*03:01:01	*03:02:01	*05:01:01	*01:03:01	*02:01:01	*04:02:01	*13:01:01	NGS	
5462	*04:07	*10:01	4*01:03	NP	*01:05	*03:01	*03:02	*05:01	*01:03	*02:01	*04:02	*13:01P	SSO NGS	DPB1*107:01
8001	*04:07	*10:01	4*01:03				*03:02	*05:01:01			*04:02	*13:01	SSP SSO	
8119	*04:07	*10:01	4*01:03				*03:02P	*05:01			*04:02	*13:01P	SSP NGS RT-PCR	

SERUM EXCHANGE #575

The results for Serum Exchange #575 are summarized in Tables 21 - 29 and individual listing of results are shown in tables 30 - 42 Anti-A33, -B12

(B44 B45), and -B51 reactivity were examined in this study, along with reactivity to a number of 8C, DQ, and DP specificities.

1293	method	#labs	A33	A25	A26	A34	A10	A29	A31	A68	A69	A28	Cw7	A66	A6601	A6602	A30	A3	B44	B45	B8	B18	B38	B39	B3901	B54	B64	B65
class I	NIH-Std	1	no consensus																									
	NIH-Ext	1	no consensus																									
	AHG	2	100%	50%	50%	50%	50%			50%		100%	50%	50%														
	Flow	1	no specificities assigned																									
	C1q	2	100%	100%	100%	100%			50%	100%	100%		100%	50%	50%	50%												
	PRA	5	80%	80%	80%	80%		80%	80%	80%	80%		60%	40%	40%	40%	80%	60%	60%	60%	60%	60%	60%		60%	60%	40%	20%
	SAB	24	100%	100%	100%	100%		100%	100%	100%	100%	9%	100%	96%	26%	26%	100%	96%	100%	100%	100%	96%	96%	87%	35%	96%	87%	87%
1293	method	#labs	A36	Cw12	B82	Bw6	B41	B63	B59	A74	B67	B61	B49	Cw5	B42	B60	B76	B50	A80	B47	Cw16	Cw8	Cw10	A32	B13	B37	B73	
	PRA		20%	40%	20%	20%																						
	SAB	24	74%	35%	22%	9%	83%	83%	83%	78%	78%	78%	70%	61%	57%	52%	52%	48%	43%	43%	43%	43%	43%	39%	35%	22%	17%	
1293	method	#labs	DQ4	DR103	DR11	DR12	DR13	DR14	DR1403	DR1404	DR4	DR8	DR16	DR17	DR18	DR3	DPw1	DPw5	DP11	DP13	DP15	DP19	DR52					
class II	NIH-Ext	1	undetermined																									
	Flow	1	no specificities assigned																									
	C1q	1	no consensus																									
	PRA	4	75%	75%	75%	75%	75%	75%	50%	50%	75%	75%	75%	50%	50%	25%	50%	50%	25%	25%	25%	25%	25%	25%	25%	25%	25%	
	SAB	22	100%	100%	100%	100%	100%	100%	23%	23%	100%	100%	100%	100%	100%	14%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
1293	method	#labs	DR15	DQ7	DQ8	DQ9	DQ2	DQA1*03	DQA1*04	DQA1*05	DQA1*06	DPA1*04	DR51	DPw4	DP23	DQ6	DP401	DP4	DR6	DPA1*02	DQ3	DQA1*01	DR2	DR5				
	PRA	4	75%	75%	50%	50%	25%	25%	25%	25%	25%	25%	18%	95%	77%	73%	50%	32%	25%		14%	9%	9%	9%	9%	9%		
	SAB	22	95%	68%	18%	50%	36%	59%	36%	36%	36%	18%	95%	77%	73%	50%	32%		14%	9%	9%	9%	9%	9%	9%			

Serum 1293. Strong anti-A33 (19557) reactivity was detected in this sample by all methods, except Flow. Additional reactivity to A29 (6401), A31 (11673), A68 (19015), A69 (16832), as well as reactivity to a number of 10C specificities was reported by various methods. Luminex PRA and Luminex Single Antigen (SAB) also reported reactivity to A30, A3, A36, B44, and B45, along with

reactivity to a number of 7C and 8C specificities. Strong class II reactivity was reported in this sample, with C1q, PRA, and SAB labs reporting anti-DQ4 (19971) reactivity, along with reactivity to a number of DR and DP antigens, including DR103 (19774), DR11 (22982), DR12 (23680), DR13 (23470), DR14 (22131), DP1 (18597), DP11 (16154), and DP5 (19984).

*(median MFI)

1294	method	#abs	B44	B45	B13	B41	B60	B61	B40	B76	B82	B8201	A2	A203	A68	A69	A28	B47	B7	B703	B49	B50	B57	B58
class I	NIH-Std	1	no consensus																					
	NIH-Ext	1	no consensus																					
	AHG	2	100%	100%	50%	50%	50%	50%					50%		50%		50%	50%	50%		50%	50%		
	Flow	1	no specificities assigned																					
	C1q	2	100%	100%	50%	50%	50%	50%		100%	50%	50%												
	PRA	5	60%	60%	60%	60%	60%	60%		40%	40%		40%	20%	40%	40%		60%	60%		60%	60%	40%	40%
	SAB	24	100%	100%	100%	100%	100%	100%	12%	100%	100%	8%	100%	29%	100%	100%	8%	100%	88%	12%	100%	100%	100%	88%
1294	method	#abs	A33	A1	A34	A66	A6602	B27	B2708	B81	B8101	B48	B73	B62	B72	A10C	A2C	B12	B12C	B15	B17	B21	B7C	Cw1
	AHG	2										50%												
	PRA	5	40%	40%	40%	20%	20%	60%	40%	20%	20%													
	SAB	24	96%	75%	100%	71%	38%	83%	42%	71%	17%	50%	38%	17%	17%	8%	8%	8%	8%	8%	8%	8%	8%	8%

1294	method	#abs	DR4	NEG	
class II	NIH-Ext	1	undetermined		
	Flow	1	no specificities assigned		
	C1q	1	NT		
	PRA	4	75%		
	SAB	22	86%	14%	

Serum 1294. For this sample, strong anti-B12 (B44, B45) reactivity was detected by all methods except Flow. Median MFI values for B44 and B45 were reported as 18964 and 20450, respectively. Additional reactivity to A2 (11130), A68 (8261), A69 (6276), as well as reactivity to a number of 5C and 7C specificities, including B13 (8005), B41 (9966), B60 (10310), B61 (10925),

B76 (18057), and B82 (16181) was reported by various methods. PRA and SAB labs also reported anti-A1 (4236), -A33 (4823), -A34 (4798), and -A66 (4268) reactivity. Weak anti-DR4 (1507) reactivity was reported by 84% of SAB labs and 75% of PRA labs. This sample was not graded for class II as the consensus for DR4 was < 90%.

1295	method	#labs	B38	B39	B3901	B64	B65	B14	B8	B18	B37	B41	B42	B59	B54	B55	B67	B51	B53	B63	B71	B72
class I	NIH-Std	1	no consensus																			
	NIH-Ext	1	undetermined																			
	AHG	2	100%	100%		50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%		50%	50%	50%	
	Flow	1	no specificities assigned																			
	C1q	2	100%	50%	50%	100%	50%		100%	100%	50%	100%	100%	100%	100%	100%	100%	50%				
	PRA	5	60%	20%	40%	40%	40%		60%	60%	60%	60%	60%	40%	60%	60%	60%	40%	60%	60%	60%	40%
	SAB	24	100%	88%	25%	100%	100%	12%	100%	100%	100%	100%	100%	100%	100%	100%	100%	88%	100%	100%	100%	96%
1295	method	#labs	B70	B75	B76	B35	B49	B50	B57	B58	B62	B78	B7801	B56	B45	B44	B47	B13	B82	B8201	B27	B2708
	AHG	2	50%	50%																		
	PRA	5		40%	40%	60%	60%	60%	60%	60%	60%	60%		60%	60%	40%	60%	60%	40%		40%	40%
	SAB	24	8%	100%	100%	100%	100%	100%	100%	96%	100%	100%	12%	100%	100%	100%	96%	88%	96%	12%	96%	42%
1295	method	#labs	B77	B52	B46	A29	A33	Bw4	Cw12	Cw2	B15	B8C	B5C	B7C	B12C	B12	B16	B17	B21	B22	Bw6	
	PRA	5	40%	40%					20%													
	SAB	24	96%	88%	88%	50%	38%	25%	12%	8%	12%	12%	8%	8%	8%	8%	8%	8%	8%	8%	8%	
1295	method	#labs	DQ7	DR52	DR7	DR9	DR12	DQA1*05	DQA1*06	DQ3	DPw5	DQA1*04	DR17	DR3	DR5	DPw1						
class II	NIH-Ext	1	undetermined																			
	Flow	1	no specificities assigned																			
	C1q	1	NT																			
	PRA	4	75%	25%	75%	75%	75%															
	SAB	22	100%	95%	91%	86%	86%	14%	14%	9%	5%	5%	5%	5%	5%	5%						

Serum 1295. Strong anti-B38 (18561), -B39 (18684), -B64 (11168), and – B65 (10365) reactivity was detected in this sample by all methods, except Flow. Additional reactivity to B18 (12454), B37 (7873), B8 (15174), as well as reactivity to a number of 5C and 7C specificities, was reported by various

methods. Class II reactivity was also detected in this sample, with PRA and SAB reporting reactivity to DQ7 (2596), DR52 (2603), DR7 (2343), DR9 (1891), and DR12 (1536). Allele specific DRB1*09:01, DRB3*01:01 and DRB3*03:01 reactivity was also reported by some labs.

1296	method	#labs	B51	A29	A33	A34	A68	B42	B54	B55	B78	B7801	A32	A31	A3	A30	A36	A74	B18	B35	B38	B39	B3901	B8
class I	NIH-Std	1	no consensus																					
	NIH-Ext	1	undetermined																					
	AHG	2	100%				50%	50%	50%	50%			50%	50%	50%				50%	50%	50%	50%		50%
	Flow	1	no specificities assigned																					
	C1q	2	50%								50%													
	PRA	4	60%	60%	60%	60%	60%	60%	40%	60%	40%	20%	60%	60%	40%	40%	40%	40%	60%	60%	60%	20%	40%	60%
	SAB	24	100%	100%	100%	100%	100%	100%	100%	100%	100%	12%	96%	96%	96%	100%	96%	96%	96%	96%	96%	88%	33%	96%

1296	method	#labs	B53	B41	B59	B64	B65	B37	B75	B67	B63	B49	B52	B77	B71	Cw1	Cw4	Cw403	Cw8	Cw5	Cw6	Cw7	Cw12	Cw14
	AHG	2	50%	50%	50%		50%	50%	50%															
	PRA	4	60%	40%	40%	40%	60%	60%	60%	60%	40%	40%	40%	40%	40%	40%			40%	40%	40%	40%	40%	40%
	SAB	24	96%	96%	96%	96%	96%	92%	92%	92%	96%	92%	92%	92%	38%	100%	96%	8%	96%	92%	92%	92%	92%	92%

1296	method	#labs	Cw15	Cw16	Cw18	B57	B58	A28	A69	A24	A2403	B13	B76	B61	B56	B45	B82	B8201	B81	B8101	A66	A6602	B14	B44	B7
	AHG	2						50%																	
	PRA	4	40%	40%	40%	20%	20%				20%														
	SAB	24	88%	88%	88%	75%	54%	8%	79%	54%	33%	71%	50%	46%	33%	25%	29%	8%	17%	8%	12%	8%	12%	12%	12%

1296	method	#labs	NEG	DQ5	DQ2
class II	NIH-Ext	1	undetermined		
	Flow	1	no specificities assigned		
	C1q	1	NT		
	PRA	4	100%		
	SAB	22	73%	17%	4%

Serum 1296. For this sample, strong reactivity to B51 (17485) was detected by antiglobulin, C1q, PRA, and SAB. Additional reactivity to a number of 1C, 5C, 7C, 8C, and 10C specificities, including A29 (7059), A33 (8973), A34 (10339), A68 (7966), B42 (8872), B54 (10119), B18 (9904), B35 (6273), B38 (6007), and B39 (9218) was also reported by various methods. Reactivity

to a number of C-locus antigens was also reported by PRA and SAB. The reporting of class II reactivity was mixed among labs, with 100% of PRA and 73% of SAB labs reporting this sample as negative for class II. A few SAB labs (n = 4) reported weak anti-DQ5 reactivity. As < 90% of labs reported this sample as negative, this sample was not graded for class II.

NEXT MAILING DATE: October 7, 2020

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

Table 21. Summary of the 575th Serum Exchange (Serum #1293-1296) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

Method: NIH-Extended											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
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			undetermined			undetermined		

Table 22. Summary of the 575th Serum Exchange (Serum #1293-1296) by Antiglobulin - class I

Method: Antiglobulin											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A28	100%	100%	B44	100%	100%	B38	100%	100%	B51	100%	100%
A33	100%	100%	B45	100%	100%	B39	100%	100%	A28	50%	100%
A10	50%	100%	B13	50%	100%	B14	50%	100%	A31	50%	100%
A25	50%	100%	B41	50%	100%	B18	50%	100%	B18	50%	100%
A26	50%	100%	B47	50%	100%	B37	50%	100%	B37	50%	100%
A34	50%	100%	B49	50%	100%	B42	50%	100%	B39	50%	100%
A66	50%	100%	B50	50%	100%	B54	50%	100%	B41	50%	100%
A68	50%	100%	B60	50%	100%	B55	50%	100%	B42	50%	100%
CW7	50%	100%	B61	50%	100%	B59	50%	100%	B53	50%	100%
			A28	50%	86%	B64	50%	100%	B54	50%	100%
			A2	50%	76%	B65	50%	100%	B55	50%	100%
			B7	50%	71%	B67	50%	100%	B59	50%	100%
			A68	50%	33%	B71	50%	100%	B75	50%	100%
			B48	50%	33%	B75	50%	100%	B8	50%	100%
						B8	50%	100%	A3	50%	91%
						B53	50%	86%	B65	50%	83%
						B70	50%	67%	A32	50%	80%
						B41	50%	50%	A68	50%	80%
						B63	50%	50%	B35	50%	75%
									B38	50%	50%

Table 23. Summary of the 575th Serum Exchange (Serum #1293-1296) by Flow Cytometry and C1q - class I

Method: Flow Cytometry											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

Method: C1q											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A25	100%	100%	B44	100%	100%	B18	100%	100%	B51	50%	100%
A26	100%	100%	B45	100%	100%	B38	100%	100%	B78	50%	100%
A33	100%	100%	B76	100%	100%	B41	100%	100%			
A34	100%	100%	B13	50%	100%	B42	100%	100%			
A68	100%	100%	B41	50%	100%	B54	100%	100%			
A69	100%	100%	B60	50%	100%	B55	100%	100%			
Cw7	100%	100%	B61	50%	100%	B59	100%	100%			
A31	50%	100%	B82	50%	100%	B64	100%	100%			
A66	50%	100%	B8201	50%	100%	B67	100%	100%			
A6601	50%	100%				B8	100%	100%			
A6602	50%	100%				B37	50%	100%			
						B39	50%	100%			
						B3901	50%	100%			
						B51	50%	100%			
						B65	50%	100%			

Table 24. Summary of the 575th Serum Exchange (Serum #1293-1296) by Luminex PRA - class I

Method: Luminex-PRA											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
5 typing Labs			5 typing Labs			5 typing Labs			5 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A25	80%	100%	B13	60%	100%	B13	60%	100%	A29	60%	100%
A26	80%	100%	B27	60%	100%	B18	60%	100%	A31	60%	100%
A29	80%	100%	B41	60%	100%	B35	60%	100%	A32	60%	100%
A30	80%	100%	B44	60%	100%	B37	60%	100%	A33	60%	100%
A31	80%	100%	B45	60%	100%	B38	60%	100%	A34	60%	100%
A33	80%	100%	B47	60%	100%	B41	60%	100%	A68	60%	100%
A34	80%	100%	B49	60%	100%	B42	60%	100%	B18	60%	100%
A68	80%	100%	B50	60%	100%	B45	60%	100%	B35	60%	100%
A69	80%	100%	B60	60%	100%	B47	60%	100%	B37	60%	100%
A3	60%	100%	B61	60%	100%	B49	60%	100%	B38	60%	100%
B18	60%	100%	B7	60%	100%	B50	60%	100%	B42	60%	100%
B38	60%	100%	A1	40%	100%	B53	60%	100%	B51	60%	100%
B3901	60%	100%	A2	40%	100%	B54	60%	100%	B53	60%	100%
B44	60%	100%	A33	40%	100%	B55	60%	100%	B55	60%	100%
B45	60%	100%	A34	40%	100%	B56	60%	100%	B65	60%	100%
B54	60%	100%	A68	40%	100%	B57	60%	100%	B67	60%	100%
B8	60%	100%	A69	40%	100%	B58	60%	100%	B75	60%	100%
Cw7	60%	100%	B2708	40%	100%	B62	60%	100%	B8	60%	100%
A66	40%	100%	B57	40%	100%	B63	60%	100%	A3	40%	100%
A6601	40%	100%	B58	40%	100%	B67	60%	100%	A30	40%	100%
A6602	40%	100%	B76	40%	100%	B71	60%	100%	A36	40%	100%
B64	40%	100%	B82	40%	100%	B78	60%	100%	A74	40%	100%
Cw12	40%	100%	A203	20%	100%	B8	60%	100%	B3901	40%	100%
A36	20%	100%	A66	20%	100%	B27	40%	100%	B41	40%	100%
B65	20%	100%	A6602	20%	100%	B2708	40%	100%	B49	40%	100%
B82	20%	100%	B81	20%	100%	B3901	40%	100%	B52	40%	100%
Bw6	20%	100%	B8101	20%	100%	B44	40%	100%	B54	40%	100%
						B51	40%	100%	B59	40%	100%
						B52	40%	100%	B63	40%	100%
						B59	40%	100%	B64	40%	100%
						B64	40%	100%	B71	40%	100%
						B65	40%	100%	B77	40%	100%
						B72	40%	100%	B78	40%	100%
						B75	40%	100%	Cw1	40%	100%
						B76	40%	100%	Cw12	40%	100%
						B77	40%	100%	Cw14	40%	100%
						B82	40%	100%	Cw15	40%	100%
						B39	20%	100%	Cw16	40%	100%
						Cw12	20%	100%	Cw18	40%	100%

Table 25. Summary of the 575th Serum Exchange (Serum #1293-1296) by Single Antigen - class I

Method: Luminex - SAB											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
23 typing Labs			24 typing Labs			24 typing Labs			24 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A25	100%	100%	A2	100%	100%	B18	100%	100%	A29	100%	100%
A26	100%	100%	A34	100%	100%	B35	100%	100%	A30	100%	100%
A29	100%	100%	A68	100%	100%	B37	100%	100%	A33	100%	100%
A31	100%	100%	A69	100%	100%	B38	100%	100%	A34	100%	100%
A33	100%	100%	B13	100%	100%	B41	100%	100%	A68	100%	100%
A34	100%	100%	B41	100%	100%	B42	100%	100%	B42	100%	100%
A68	100%	100%	B44	100%	100%	B45	100%	100%	B51	100%	100%
A69	100%	100%	B45	100%	100%	B49	100%	100%	B54	100%	100%
B45	100%	100%	B47	100%	100%	B53	100%	100%	B55	100%	100%
B8	100%	100%	B49	100%	100%	B54	100%	100%	B78	100%	100%
B44	100%	83%	B50	100%	100%	B55	100%	100%	Cw1	100%	89%
Cw7	100%	82%	B57	100%	100%	B56	100%	100%	A3	96%	100%
A30	100%	75%	B60	100%	100%	B57	100%	100%	A31	96%	100%
A3	96%	100%	B61	100%	100%	B59	100%	100%	A32	96%	100%
A66	96%	100%	B76	100%	100%	B63	100%	100%	A36	96%	100%
B38	96%	100%	B82	100%	100%	B64	100%	100%	A74	96%	100%
B18	96%	80%	A33	96%	67%	B65	100%	100%	B18	96%	100%
B54	96%	67%	B58	88%	100%	B67	100%	100%	B35	96%	100%
B39	87%	100%	B7	88%	50%	B71	100%	100%	B38	96%	100%
B64	87%	100%	B27	83%	100%	B75	100%	100%	B41	96%	100%
B65	87%	100%	A1	75%	90%	B76	100%	100%	B53	96%	100%
B41	83%	100%	A66	71%	50%	B78	100%	100%	B59	96%	100%
B63	83%	100%	B81	71%	50%	B8	100%	100%	B63	96%	100%
B59	83%	33%	B48	50%	100%	B44	100%	83%	B64	96%	100%
A74	78%	100%	B2708	42%	100%	B62	100%	75%	B65	96%	100%
B67	78%	100%	A6602	38%	100%	B50	100%	67%	B8	96%	100%
B61	78%	67%	B73	38%	100%	B58	96%	100%	Cw4	96%	100%
A36	74%	100%	A203	29%	100%	B72	96%	100%	Cw8	96%	100%
B49	70%	50%	B62	17%	100%	B77	96%	100%	B37	92%	100%
Cw5	61%	100%	B72	17%	100%	B82	96%	100%	B49	92%	100%
B42	57%	100%	B8101	17%	100%	B27	96%	80%	B52	92%	100%
B60	52%	100%	B40	12%	100%	B47	96%	67%	B67	92%	100%
B76	52%	100%	B703	12%	100%	B39	88%	100%	B75	92%	100%
B50	48%	100%	A10C	8%	100%	B51	88%	100%	Cw12	92%	100%
A80	43%	100%	A28	8%	100%	B52	88%	100%	Cw14	92%	100%
B47	43%	100%	A2C	8%	100%	B46	88%	67%	Cw5	92%	100%
Cw16	43%	100%	B12	8%	100%	B13	88%	40%	Cw7	92%	95%

Table 25. Summary of the 575th Serum Exchange (Serum #1293-1296) by Single Antigen - class I, cont.

Method: Luminex - SAB											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
24 typing Labs			24 typing Labs			24 typing Labs			24 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
Cw8	43%	100%	B12C	8%	100%	Cw15	67%	100%	Cw6	92%	64%
Cw10	43%	50%	B15	8%	100%	A29	50%	50%	B77	92%	50%
A32	39%	100%	B17	8%	100%	B2708	42%	100%	B39	88%	100%
B13	35%	100%	B21	8%	100%	A33	38%	50%	Cw15	88%	100%
B3901	35%	100%	B7C	8%	100%	B3901	25%	100%	Cw16	88%	100%
Cw12	35%	100%	B8201	8%	100%	Bw4	25%	100%	Cw18	88%	100%
A6601	26%	100%	Cw1	8%	100%	B14	12%	100%	A69	79%	100%
A6602	26%	100%				B15	12%	100%	B57	75%	50%
B37	22%	100%				B7801	12%	100%	B13	71%	43%
B82	22%	100%				B8201	12%	100%	B58	54%	100%
B73	17%	100%				B8C	12%	100%	A24	54%	50%
A10	9%	100%				Cw12	12%	100%	B76	50%	100%
A10C	9%	100%				B12	8%	100%	B61	46%	100%
A28	9%	100%				B12C	8%	100%	B71	38%	100%
B12	9%	100%				B16	8%	100%	A2403	33%	100%
B12C	9%	100%				B17	8%	100%	B3901	33%	100%
B16	9%	100%				B21	8%	100%	B56	33%	100%
B55	9%	100%				B22	8%	100%	B82	29%	100%
B7C	9%	100%				B5C	8%	100%	B45	25%	100%
B8C	9%	100%				B70	8%	100%	B81	17%	100%
Bw6	9%	100%				B7C	8%	100%	A66	12%	100%
						Bw6	8%	100%	B14	12%	100%
						Cw2	8%	100%	B44	12%	100%
									B7	12%	100%
									B7801	12%	100%
									A10C	8%	100%
									A19	8%	100%
									A28	8%	100%
									A6602	8%	100%
									B15	8%	100%
									B16	8%	100%
									B5	8%	100%
									B5C	8%	100%
									B8101	8%	100%
									B8201	8%	100%
									B8C	8%	100%
									Bw4	8%	100%
									Cw403	8%	100%

Table 26. Summary of the 575th Serum Exchange (Serum #1293-1296) by NIH-Extended and Flow Cytometry - class II

Method: NIH-Extended											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NEG			undetermined			undetermined			undetermined		

Method: Flow Cytometry											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

Table 27. Summary of the 575th Serum Exchange (Serum #1293-1296) by C1q - class II

Method: C1q											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
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			NT			NT			NT		

Table 28. Summary of the 575th Serum Exchange (Serum #1293-1296) by Luminex - class II

Method: Luminex - PRA											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
4 typing Labs			4 typing Labs			4 typing Labs			4 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ4	75%	100%	DR4	75%	100%	DQ7	75%	100%	NEG	100%	-
DQ7	75%	100%				DR12	75%	100%			
DR103	75%	100%				DR7	75%	100%			
DR11	75%	100%				DR9	75%	100%			
DR12	75%	100%				DR52	25%	100%			
DR13	75%	100%									
DR14	75%	100%									
DR15	75%	100%									
DR16	75%	100%									
DR4	75%	100%									
DR8	75%	100%									
DPw1	50%	100%									
DPw5	50%	100%									
DQ8	50%	100%									
DQ9	50%	100%									
DR1403	50%	100%									
DR1404	50%	100%									
DR17	50%	100%									
DR18	50%	100%									
DP11	25%	100%									
DP13	25%	100%									
DP15	25%	100%									
DP19	25%	100%									
DPA1*04	25%	100%									
DPw4	25%	100%									
DQ2	25%	100%									
DQA1*03	25%	100%									
DQA1*04	25%	100%									
DQA1*05	25%	100%									
DQA1*06	25%	100%									
DR3	25%	100%									
DR52	25%	100%									

Table 29. Summary of the 575th Serum Exchange (Serum #1293-1296) by Single Antigen - class II

Method: Luminex - SAB											
*** Serum 1293 ***			*** Serum 1294 ***			*** Serum 1295 ***			*** Serum 1296 ***		
22 typing Labs			21 typing Labs			22 typing Labs			15 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DP11	100%	100%	DR4	86%	91%	DQ7	100%	82%	NEG	73%	-
DP13	100%	100%	NEG	14%	-	DR52	95%	79%	DQ5	17%	50%
DP15	100%	100%				DR7	91%	100%	DQ2	4%	100%
DP19	100%	100%				DR12	86%	100%			
DPw1	100%	100%				DR9	86%	100%			
DPw5	100%	100%				DQA1*05	14%	100%			
DQ4	100%	100%				DQA1*06	14%	100%			
DR103	100%	100%				DQ3	9%	100%			
DR11	100%	100%				DPw5	5%	100%			
DR12	100%	100%				DQA1*04	5%	100%			
DR13	100%	100%				DR17	5%	100%			
DR14	100%	100%				DR3	5%	100%			
DR16	100%	100%				DR5	5%	100%			
DR17	100%	100%				DPw1	5%	50%			
DR18	100%	100%									
DR4	100%	100%									
DR52	100%	100%									
DR8	100%	100%									
DR15	95%	100%									
DR51	95%	89%									
DPw4	77%	93%									
DP23	73%	100%									
DQ7	68%	94%									
DQA1*04	36%	100%									
DQA1*05	36%	100%									
DQA1*06	36%	100%									
DQA1*03	59%	100%									
DQ9	50%	89%									
DQ6	50%	17%									
DQ2	36%	87%									
DP401	32%	100%									
DR1403	23%	100%									
DR1404	23%	100%									
DPA1*04	18%	100%									
DQ8	18%	83%									
DR3	14%	100%									
DR6	14%	100%									

Table 30. Individual laboratory results for Serum #1293- #1296 by NIH-Standard and NIH-Extended - class I

	**** Serum 1293 ****					**** Serum 1294 ****				**** Serum 1295 ****				**** Serum 1296 ****							
Ctr	% POS	A10	A28	A33	Other	% POS	B12			Other	% POS	B14	B16		Other	% POS			Other	Method	
786	NT	+	+	+			+					+	+								STD

STD = NIH-Standard

	**** Serum 1293 ****				**** Serum 1294 ****				**** Serum 1295 ****				**** Serum 1296 ****					
Ctr	% POS	A33		Other	% POS	B44			Other	% POS			Other	% POS			Other	Method
3753	16	+			13	+				U				U				EXT

EXT = NIH-Extended

Table 31. Individual laboratory results for Serum #1293- #1296 by Antiglobulin - class I

**** Serum 1293 ****												**** Serum 1294 ****											
Ctr	% POS	A28	A33	A10	A25	A26	A34	A66	A68	Cw7	Other	% POS	B44	B45	B13	B41	B47	B49	B50	B60	B61	Other	Method
774	45	+	+		+	+	+	+	+			56	+	+		+	+	+	+	+	+	A2,B48,B7,A28 >	Antiglobulin
786		+	+	+						+			+	+									Antiglobulin

**** Serum 1295 ****												**** Serum 1296 ****											
Ctr	% POS	B38	B39	B14	B18	B37	B42	B54	B55	B59	Other	% POS	B51	A28	A31	B18	B37	B39	B41	B42	B53	Other	Method
774	65	+	+		+	+	+	+	+	+	B70,B53,B75,B67 >	89	+	+	+	+	+	+	+	+	+	B75,B54,B55,A32 >	Antiglobulin
786		+	+	+									+										Antiglobulin

Table 32. Individual laboratory results for Serum #1293- #1296 by Flow Cytometry and C1q - class I

		**** Serum 1293 ****										**** Serum 1294 ****							**** Serum 1295 ****										**** Serum 1296 ****							
Ctr	% POS											Other	% POS							Other	% POS								Other	% POS					Other	Method
5214	92												80								87									99						FC

FC = Flow Cytometry

		**** Serum 1293 ****										**** Serum 1294 ****							**** Serum 1295 ****										**** Serum 1296 ****									
Ctr	% POS	A25	A26	A33	A34	A68	A69	Cw7	A31	A66	Other	% POS	B44	B45	B76	B13	B41	B60	B61	B82	Other	% POS	B18	B38	B41	B42	B54	B55	B59	B64	B67	B8	Other	% POS	B51	B78	Other	Method
786		+	+	+	+	+	+	+			A6601,A6602		+	+	+						B8201		+	+	+	+	+	+	+	+	+	+	B3901					C1q
2400		+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	B51,B65,B39,B37		+	+		C1q

Table 33. Individual laboratory results for Serum #1293- #1296 by Luminex PRA - class I

**** Serum 1293 ****																																
Ctr	% POS	A25	A26	A29	A30	A31	A33	A34	A68	A69	A3	B18	B38	B3901	B44	B45	B54	B8	Cw7	A66	A6601	A6602	B64	Cw12	A36	B65	B82	Bw6	Other	Method		
731	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+							Luminex-PRA
2400	82																															Luminex-PRA
3753	88	+	+	+	+	+	+	+	+	+										+												Luminex-PRA
8043	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+		+	+					Luminex-PRA
8045	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+				Luminex-PRA

**** Serum 1294 ****																																
Ctr	% POS	B13	B27	B41	B44	B45	B47	B49	B50	B60	B61	B7	A1	A2	A33	A34	A68	A69	B2708	B57	B58	B76	B82	A203	A66	A6602	B81	B8101	Other	Method		
731	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+		+				Luminex-PRA
2400	84																															Luminex-PRA
3753	74	+	+	+	+	+	+	+	+	+	+	+																				Luminex-PRA
8043	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+					Luminex-PRA
8045	NT																															Luminex-PRA

**** Serum 1295 ****																																							
Ctr	% POS	B13	B18	B35	B37	B38	B41	B42	B45	B47	B49	B50	B53	B54	B55	B56	B57	B58	B62	B63	B67	B71	B78	B8	B27	B2708	B3901	B44	B51	B52	B59	B64	B65	B72	B75	B76	Other	Method	
731	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B77,Cw12	Luminex-PRA	
2400	96																																						Luminex-PRA
3753	90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+														B39	Luminex-PRA
8043	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B77	Luminex-PRA	
8045	NT																																						Luminex-PRA

**** Serum 1296 ****																																							
Ctr	% POS	A29	A31	A32	A33	A34	A68	B18	B35	B37	B38	B42	B51	B53	B55	B65	B67	B75	B8	A3	A30	A36	A74	B3901	B41	B49	B52	B54	B59	B63	B64	B71	B77	B78	Cw1	Cw12	Other	Method	
731	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,Cw5,Cw7 >	Luminex-PRA	
2400	95																																						Luminex-PRA
3753	90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																			B39,B57,B58	Luminex-PRA
8043	53	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,Cw5,Cw7 >	Luminex-PRA	
8045	NT																																						Luminex-PRA

Table 35. Individual laboratory results for Serum #1294 by Luminex - class I

		**** Serum 1294 ****																														
Ctr	% POS	A2	A34	A68	A69	B13	B41	B44	B45	B47	B49	B50	B57	B60	B61	B76	B82	A33	B58	B7	B27	A1	A66	B81	B48	B2708	A6602	B73	A203	Other	Method	
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+		B62,B72	LMX-SAB	
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+						LMX-SAB
774	77	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX-SAB
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	B62,B72,B8101,B2705 >	LMX-SAB	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+				LMX-SAB
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX-SAB
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX-SAB
3632	93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+					LMX-SAB
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+			LMX-SAB
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B8201	LMX-SAB
3808	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+			LMX-SAB
3966	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX-SAB
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B62,B72,Cw1	LMX-SAB	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB
5219	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,A10,B21 >	LMX-SAB	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B8201	LMX-SAB	
6649	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+			LMX-SAB
8045	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B21,B703,A28 >	LMX-SAB	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		B62,B72,Cw1,Cw12	LMX-SAB	
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX-SAB
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX-SAB
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	B703,Bw4,Bw6,B12C >	LMX-SAB	
8103	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15	LMX-SAB	
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX-SAB
8121		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB

Table 36. Individual laboratory results for Serum #1295 by Luminex - class I

		**** Serum 1295 ****																																																
Ctr	% POS	B18	B35	B37	B38	B41	B42	B45	B49	B53	B54	B55	B56	B57	B59	B63	B64	B65	B67	B71	B75	B76	B78	B8	B44	B62	B50	B58	B72	B77	B82	B27	B47	B39	B51	B52	B46	B13	Cw15	A29	B2708	A33	B3901	Bw4	Other	Method				
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A*33:03,A*29:02	LMX-SAB			
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw12	LMX-SAB		
774	84	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B2705,B8201	LMX-SAB	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
3632		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B7801,B8201	LMX-SAB
3808	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW12,B7801	LMX-SAB
3966	47	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw2	LMX-SAB
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
5219	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,B70,B21,B5 >	LMX-SAB
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8201	LMX-SAB
6649	44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw12	LMX-SAB
8045	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,B70,B21,B22 >	LMX-SAB
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw2	LMX-SAB
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6,B12C,B5C,B8C >	LMX-SAB
8103	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,B14,B7801	LMX-SAB
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
8121		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	

Table 37. Individual laboratory results for Serum #1296 by Luminex - class I, cont.

**** Serum 1296 ****					
Ctr	B66	B82	B45	Other	Method
615	+	+	+	A66,B44,B7,B81,B*13:02,A*66:02,B*44:03>	LMX-SAB
725					LMX-SAB
774					LMX-SAB
786	+		+	B44,B7,A25,B8101 >	LMX-SAB
910	+	+			LMX-SAB
1647				Bw4	LMX-SAB
2400	+				LMX-SAB
3632					LMX-SAB
3753			+		LMX-SAB
3766	+	+		B81,B8101,B7801,B8201	LMX-SAB
3808				B7801	LMX-SAB
3966		+			LMX-SAB
4322	+	+	+	B81	LMX-SAB
5214	+	+	+	A*66:01,A*66:02,B*44	LMX-SAB
5219					LMX-SAB
5462				B*13:02	LMX-SAB
6649				A66	LMX-SAB
8045				B5,A19,A28,B14 >	LMX-SAB
8082	+	+	+	A66,B44,B7,B81	LMX-SAB
8086					LMX-SAB
8090				A*24:03,B*13:02,B*57:03	LMX-SAB
8098				Bw4,Bw6,B12C,B5C >	LMX-SAB
8103				Cw403,B15,B14,B7801	LMX-SAB
8112					LMX-SAB
8121					LMX-SAB

Table 38. Individual laboratory results for Serum #1293 - 1296 by NIH-Extended and Flow Cytometry - class II

	**** Serum 1293****				**** Serum 1294 ****				**** Serum 1295 ****				**** Serum 1296 ****				
Ctr	% POS			Other	% POS			Other	% POS			Other	% POS			Other	Method
3753	78				7				17				9				EXT

EXT = NIH-Extended

	**** Serum 1293****				**** Serum 1294 ****				**** Serum 1295 ****				**** Serum 1296 ****				
Ctr	% POS			Other	% POS			Other	% POS			Other	% POS			Other	Method
5214	99				12				72				0				FC

FC = Flow cytometry

Table 39. Individual laboratory results for Serum #1293 - 1296 by C1q - class II

**** Serum 1293 ****													**** Serum 1294 ****				**** Serum 1295 ****				**** Serum 1296 ****									
Ctr	% POS	DP11	DP13	DP15	DP19	DP23	DPw1	DPw4	DPw5	DQ4	DQA1*05	DQA1*06	DR103	Other	% POS				Other	% POS				Other	% POS				Other	Method
2400		+	+	+	+	+	+	+	+	+	+	+	+	DR4,DR8,DR11,DR12,DR13,DR14,DR16,DR17,DR18,DR51,DR52	NT					NT					NT					C1q

Table 40. Individual laboratory results for Serum #1293 - 1296 by Luminex PRA - class II

Ctr	**** Serum 1293 ****																	**** Serum 1294 ****				**** Serum 1295 ****						**** Serum 1296 ****				Method				
	% POS	DQ4	DQ7	DR103	DR11	DR12	DR13	DR14	DR15	DR16	DR4	DR8	DPw1	DPw5	DQ8	DQ9	DR1403	DR1404	DR17	DR18	Other	% POS	DR4	Other	% POS	DQ7	DR12	DR7	DR9	DR52	Other		% POS	Other		
731	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DR3,DP11,DP13>	5	+			10	+	+	+	+		0			Luminex-PRA	
2400	100																					17				77						0			Luminex-PRA	
3753	90	+	+	+	+	+	+	+	+	+	+	+							+	+		13	+			53	+	+	+	+		0			Luminex-PRA	
8043	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR52,DQ2,DPw4	5	+			10	+	+	+	+	+		0			Luminex-PRA

Table 41. Individual laboratory results for Serum #1293 by Luminex - class II

		**** Serum 1293 ****																																														
Ctr	% POS	DP11	DP13	DP15	DP19	DPw1	DPw5	DQ4	DR103	DR11	DR12	DR13	DR14	DR16	DR17	DR18	DR4	DR52	DR8	DR15	DR51	DPw4	DP23	DQ7	DQA1*04	DQA1*05	DQA1*06	DQA1*03	DQ9	DQ6	DQ2	DP401	DR1403	DR1404	DPA1*04	DQ8	DR3	DR6	Other	Method								
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DRB5*01:01,DQB1*06:01, DQB1*06:09	LMX-SAB								
774	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+														+				LMX-SAB						
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB						
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB						
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB					
3632	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB					
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB					
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB					
3808	67	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB					
3966	59	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB				
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB				
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB				
5219	68	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB			
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB			
6649	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB		
8045	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB		
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB		
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB		
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB		
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB	
8103	68	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB	
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB
8121		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB

Table 42. Individual laboratory results for Serum #1294 - 1296 by Luminex - class II

**** Serum 1294 ****				**** Serum 1295 ****								**** Serum 1296 ****				
Ctr	% POS	DR4	Other	% POS	DQ7	DR52	DR7	DR12	DR9	DQA1*05	DQA1*06	Other	% POS	DQ5	Other	Method
615		+			+	+	+	+	+			DRB1*09:01, DRB3*03:01, DRB3*01:01	0			LMX-SAB
774	14	+		74	+	+	+	+	+				0			LMX-SAB
910		+			+	+	+	+	+							LMX-SAB
1647		+			+	+	+	+	+							LMX-SAB
2400					+	+	+	+	+							LMX-SAB
3632	0			46	+	+	+	+	+				2	+	DQ2	LMX-SAB
3753		+			+	+	+	+	+			DRB3*01:01,DRB3*03:01	0			LMX-SAB
3766		+			+	+	+	+	+							LMX-SAB
3808	0			6	+	+	+						0			LMX-SAB
3966	5	+		12	+	+	+	+	+	+	+					LMX-SAB
4322		+			+	+		+	+	+	+			+		LMX-SAB
5214		+			+		+	+					0			LMX-SAB
5219	2	+		9	+	+	+	+	+			DR5,DQ3	0			LMX-SAB
5462		+			+	+	+	+	+			DRB3*01:01,DRB3*03:01, DRB1*09:01	0			LMX-SAB
6649	5	+		10	+	+	+	+	+				0			LMX-SAB
8045	5	+		11	+	+	+	+	+			DQA1*04				LMX-SAB
8082		+			+	+	+	+	+	+	+			+		LMX-SAB
8086	200	+		200	+	+	+	+	+			DPw1,DPw5	200	+		LMX-SAB
8090	0				+	+	+	+	+			DRB1*09:01,DRB3*01:01, DRB3*03:01	0			LMX-SAB
8098		+			+	+	+	+	+							LMX-SAB
8103	0			4	+	+	+					DR3,DR17,DQ3	0			LMX-SAB
8112		+			+	+	+	+	+				0			LMX-SAB
8121		+			+	+							0			LMX-SAB