

REPORT OF THE 416th CELL EXCHANGE

MAY 14, 2020

B-cell Lines	573-574
Cells	1661-1664
Sera	1289-1292

B-cell Line Exchange #287

The results for B-cell Line Exchange #287 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We would like to express our appreciation to **Welsh Blood Service, Pontyclun and to HLA Laboratory, Ochsner Health System, New Orleans** for sharing the valuable reference cells 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-573. The consensus type for this cell from a Caucasian donor was DRB1*03:01-DRB1*04:01-DRB3*01:01-DRB4*01:03-DQA1*03:03-DQA1*05:01-DQB1*02:01-DQB1*03:01-DPA1*01:03-DPB1*04:01-DPB1*04:02/A*01:01-A*68:01-B*08:19N-B*40:01-C*03:04-C*07:01. One possible association in this cell could be B*40:01-C*03:04-DRB1*04:01-DQB1*03:01, observed in Caucasians, with HF = 0.00235. The other likely association may then be B*08:19N-C*07:01-DRB1*03:01-DQB1*02:01.

This sample is 11829109, a reference cell for B*08:19N. It was previously examined in the class I DNA Extract Exchange as extracts 410 (2008) and 598 (2013). In this present retyping, B*08:19N was reported by 95%, compared to only 68% of labs assigning it in 2013. Good agreement (90%) was achieved in the allele assignments for all loci.

Ter-574. The consensus type for this cell from an African American donor was DRB1*04:05-DRB1*14:02-DRB3*01:01-DRB4*01:03-DQA1*03:03-DQA1*05:03-DQB1*03:01-DQB1*03:02-DPA1*01:03-DPA1*02:01-DPB1*01:01-DPB1*04:02/A*01:01-A*02:01-B*35:04-B*82:01-C*03:02-C*04:01. One likely association present in this cell was B*82:01-C*03:02-DRB1*04:05-DQB1*03:02, observed in African American populations, with HF = 0.00029. The other likely association present may then be B*35:04-C*04:01-DRB1*14:02-DQB1*03:01.

This cell was RB22, a reference cell for B*35:04:01:01, B*82:01:01:01, and MICA*043. It has been examined numerous times in the Exchange as extracts 87 (1999), 301 (2004), and 432 (2008), as well as Ter 239 (1999), Ter 266 (2000), Ter 499 (2014), Ter 511 (2015), and Ter 550 (2018). In this present retyping, B*35:04 and B*82:01 were each assigned by 100%, with 7 labs reporting B*35:04:01 and 1 lab reporting B*82:01:01:01. Allele assignments for all other loci were also reported in good agreement.

Table 1: Summary of the 287th B-cell Line Exchange

Ter-573

Ter-573												
DNA Typing - class II	26 labs High; 25 labs low-DRB1	%(n)	16 labs High; 17 labs Low-DRB3/4/5	%(n)	18 labs High; 22 labs Low-DQA1	%(n)	25 labs High; 23 labs Low-DQB1	%(n)	12 labs High; 11 labs Low-DPA1	%(n)	21 labs High; 14 labs Low-DPB1	%(n)
	DRB1*03:01:01:01	4 (1)	DRB3*01:01:02	25(4)	DQA1*03:03:01:01	11(2)	DQB1*02:01:01	24(6)	DPA1*01:03:01:02	8 (1)	DPB1*04:01:01:02	5 (1)
	DRB1*03:01:01	23(6)	DRB3*01:01	75(12)	DQA1*03:03	83(15)	DQB1*02:01:01G	4 (1)	DPA1*01:03:01	17(2)	DPB1*04:01:01	19(4)
	DRB1*03:01:01G	8 (2)	DRB3*01	82(14)	DQA1*03:02	6 (1)	DQB1*02:01	72(18)	DPA1*01:03	75(9)	DPB1*04:01:01G	9 (2)
	DRB1*03:01:01G	4 (1)	DRB3*PRESENT	18(3)	DQA1*03	100(22)	DQB1*02	100(23)	DPA1*01	100(11)	DPB1*04:01P	5 (1)
	DRB1*03:01	61(16)									DPB1*04:01	62(13)
	DRB1*03(DR17)	4 (1)									DPB1*04(DP401)	50(7)
	DRB1*03	96(24)									DPB1*04	50(7)
	26 labs High; 25 labs low-DRB1	%(n)	16 labs High; 17 labs Low-DRB3/4/5	%(n)	18 labs High; 22 labs Low-DQA1	%(n)	25 labs High; 23 labs Low-DQB1	%(n)			21 labs High; 14 labs Low-DPB1	%(n)
	DRB1*04:01:01	31(8)	DRB4*01:03:01	25(4)	DQA1*05:01:01:02	6 (1)	DQB1*03:01:01	20(5)			DPB1*04:02:01	24(5)
	DRB1*04:01:01G	4 (1)	DRB4*01:03	75(12)	DQA1*05:01:01	6 (1)	DQB1*03:01:01G	8 (2)			DPB1*04:02:01G	9(2)
	DRB1*04:01	65(17)	DRB4*01	82(14)	DQA1*05:01	88(16)	DQB1*03:01	72(18)			DPB1*04:02P	5 (1)
	DRB1*04	100(25)	DRB4*PRESENT	18(3)	DQA1*05	100(22)	DQB1*03(DQ7)	4 (1)			DPB1*04:02	62(13)
						DQB1*03	96(22)			DPB1*04(DP402)	50(7)	
										DPB1*04	50(7)	
DNA Typing - class I	19 labs High; 22 labs low- A	%(n)	19 labs High; 22 labs low- B	%(n)	19 labs High; 22 labs low- C	%(n)						
	A*01:01:01:01	11(2)	B*08:19N	95(18)	C*03:04:01:02	5 (1)						
	A*01:01:01	21(4)	B*08:01	5 (1)	C*03:04:01	26(5)						
	A*01:01	68(13)	B*08	100(22)	C*03:04	68(13)						
	A*01	100(22)			C*03(Cw10)	5 (1)						
					C*03	95(21)						
	19 labs High; 22 labs low- A	%(n)	19 labs High; 22 labs low- B	%(n)	19 labs High; 22 labs low- C	%(n)						
	A*68:01:02:02	11(2)	B*40:01:02	32(6)	C*07:01:01:01	5 (1)						
	A*68:01:02	21(4)	B*40:01	68(13)	C*07:01:01	26(5)						
	A*68:01	68(13)	B*40(B60)	5 (1)	C*07:01P	5 (1)						
	A*68	100(22)	B*40	95(21)	C*07:01	63(12)						
					C*07	100(22)						

Table 2: Summary of the 287th B-cell Line Exchange

Ter-574

Ter-574												
DNA Typing - class II	26 labs High; 25 labs low-DRB1	%(n)	16 labs High; 16 labs Low-DRB3/4/5	%(n)	18 labs High; 22 labs Low-DQA1	%(n)	25 Labs High; 23 labs Low-DQB1	%(n)	11 labs High; 10 labs Low-DPA1	%(n)	21 labs High; 14 labs Low-DPB1	%(n)
	DRB1*04:05:01	31(8)	DRB3*01:01:02	25(4)	DQA1*03:03:01:01	11(2)	DQB1*03:01:01	20(5)	DPA1*01:03:01	27(3)	DPB1*01:01:01	29(6)
	DRB1*04:05	69(18)	DRB3*01:01	75(12)	DQA1*03:03:01	6 (1)	DQB1*03:01:01G	8 (2)	DPA1*01:03	73(8)	DPB1*01:01	71(15)
	DRB1*04	100(25)	DRB3*01	88(14)	DQA1*03:03	77(14)	DQB1*03:01P	4 (1)	DPA1*01	100(10)	DPB1*01	100(14)
			DRB3*PRESENT	12(2)	DQA1*03:02	6 (1)	DQB1*03:01	68(17)				
					DQA1*03	100(22)	DQB1*03(DQ17)	4 (1)				
							DQB1*03	96(22)				
DNA Typing - class I	19 labs High; 22 labs low- A	%(n)	19 labs High; 22 labs low- B	%(n)	19 labs High; 22 labs low- C	%(n)	25 Labs High; 23 labs Low-DQB1	%(n)	12 labs High; 10 labs Low-DPA1	%(n)	21 labs High; 14 labs Low-DPB1	%(n)
	A*01:01:01:11	5 (1)	B*35:04:01	37(7)	C*03:02:02:05	5 (1)	DQB1*03:02:01:01	8 (2)	DPA1*02:01:01:01	8 (1)	DPB1*04:02:01	29(6)
	A*01:01:01	26(5)	B*35:04	63(12)	C*03:02:02	26(5)	DQB1*03:02:01	16(4)	DPA1*02:01:01	17(2)	DPB1*04:02	71(15)
	A*01:01	68(13)	B*35	100(22)	C*03:02	68(13)	DQB1*03:02:01G	4 (1)	DPA1*02:01	75(9)	DPB1*04(DP402)	50(7)
	A*01	100(22)			C*03(Cw10)	5 (1)	DQB1*03:02	72(18)	DPA1*02	100(10)	DPB1*04	50(7)
					C*03	95(21)	DQB1*03(DQ18)	4 (1)				
							DQB1*03	96(22)				
DNA Typing - class I	19 labs High; 22 labs low- A	%(n)	19 labs High; 22 labs low- B	%(n)	19 labs High; 22 labs low- C	%(n)						
	A*02:01:01:01	5 (1)	B*82:01:01:01	5 (1)	C*04:01:01	32(6)						
	A*02:01:01	26(5)	B*82:01	95(18)	C*04:01P	5 (1)						
	A*02:01P	5 (1)	B*82	100(22)	C*04:01	63(12)						
	A*02:01	63(12)			C*04	100(22)						
	A*02	100(22)										

Table 3a: Individual laboratory results for B-cell #573 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*04	*04	SSP SSO	
725	*03	*04	3*PRESENT	4*PRESENT	*03	*05	*02	*03					SSP SSO	
731	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*04	*04	SSO SBT RT-PCR	
747	*03	*04	3*PRESENT	4*PRESENT	*03	*05	*02	*03	*01	*01	*04	*04	SSP SSO NGS	
771	*03	*04			*03	*05	*02	*03					SSO NGS	
774	*03	*04	3*01	4*01	*03	*05	*02	*03			*04(DP401)	*04(DP402)	SSP SSO	
792	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*04	*04	SSO SBT	
793	*03	*04	3*01	4*01	*03	*05	*02	*03			*04(DP401)	*04(DP402)	SSP	
794	*03	*04	3*01	4*01	*03	*05	*02	*03	*01		*04		SSP SSO NGS RT-PCR	
2400	*03	*04	3*01	4*01	*03	*05	*02	*03			*04	*04	SSO NGS	
2847	*03	*04											SSO	
3519	*03	*04			*03	*05	*02	*03	*01	*01	*04(DP401)	*04(DP402)	SSP NGS RT-PCR	
3753	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*04(DP401)	*04(DP402)		
3966													SSP	
4079	*03	*04	3*01	4*01	*03	*05	*02	*03	*01		*04(DP401)	*04(DP402)	SSO	
4251	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*04(DP401)	*04(DP402)	SSO RT-PCR	
5130	*03	*04	3*01	4*01	*03	*05	*02	*03			*04	*04	SSO NGS	
5214	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ7)	*01		*04(DP401)	*04(DP402)	SSO	
5219	*03	*04			*03	*05	*02	*03					SSO NGS	
5451	*03	*04	3*01	4*01	*03	*05	*02	*03					SSO SBT	
5462	*03	*04	3*01	4*01	*03	*05	*02	*03	*01		NT	NT	RT-PCR	
5642	*03	*04	3*PRESENT	4*PRESENT			*02	*03					SSP	
6649	*03	*04											SSO	
8029	*03	*04			*03	*05	*02	*03					SSO	
8043	*03	*04			*03	*05	*02	*03					SSP SSO	
8068	*03	*04			*03	*05	*02	*03					SSO	

Table 3b: Individual laboratory results for B-cell #573 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*03:01	*04:01	3*01:01	4*01:03	*03:03	*05:01	*02:01	*03:01	*01:03	*01:03	*04:01	*04:02	SSO SBT NGS	
278	*03:01	*04:01	3*01:01	4*01:03	*03:03	*05:01	*02:01	*03:01	*01:03	*01:03	*04:01	*04:02	SSP SSO	
731	*03:01	*04:01:01					*02:01	*03:01					SSO SBT RT-PCR	
747	*03:01:01:01	*04:01:01	3*01:01:02	4*01:03:01	*03:03:01:01	*05:01:01:02	*02:01:01	*03:01:01	*01:03:01:02	*01:03:01	*04:01:01:02	*04:02:01	SSP SSO NGS	DQB1*03:276N DPB1*126:01 DPB1*665:01 DPB1*105:01
762	*03:01	*04:01	3*01:01	4*01:03	*03:03	*05:01	*02:01	*03:01	*01:03		*04:01	*04:02	NGS	DPB1*126:01 DPB1*105:01
771	*03:01	*04:01					*02:01	*03:01					SSO NGS	
774	*03:01	*04:01	3*01:01	4*01:03	*03:03	*05:01	*02:01	*03:01			*04:01	*04:02	SSP SSO	DRB1*03:68N DRB1*03:83 DRB1*03:100 DRB1*03:104 DRB1*03:112 DRB1*04:171 DRB1*04:175 DPB1*126:01 DPB1*105:01
792	*03:01	*04:01					*02:01	*03:01			*04:01	*04:02	SSO SBT	
793					*03:03	*05:01					*04:01	*04:02	SSP	
794	*03:01:01	*04:01:01	3*01:01:02	4*01:03:01	*03:03	*05:01	*02:01:01	*03:01:01	NT	NT	*04:01:01	*04:02:01	SSP SSO NGS RT-PCR	
2344	*03:01:01G	*04:01:01	NT	NT	NT	NT	*02:01:01	*03:01:01	NT	NT	*04:01:01G	*04:02:01G	NGS	
2400	*03:01	*04:01	3*01:01	4*01:03	*03:03	*05:01	*02:01	*03:01			*04:01	*04:02	SSO NGS	DPB1*105:01 DPB1*665:01 DQB1*03:276N DQB1*03:297 DPB1*126:01
3135	*03:01:01	*04:01	3*01:01	4*01:03	*03:02	*05:01	*02:01	*03:01	*01:03	*01:03	*04:01	*04:02		DQA1*03:03
3511	*03:01	*04:01	3*01:01	4*01:03	*03:03	*05:01	*02:01	*03:01	*01:03	*01:03	*04:01	*04:02	SSP SSO	
3519	*03:01P	*04:01	3*01:01	4*01:03	*03:03	*05:01	*02:01	*03:01	*01:03	*01:03	*04:01P	*04:02P	SSP NGS RT-PCR	DPB1*126:01 DRB1*03:147 DPB1*665:01
3966	*03:01	*04:01	3*01:01	4*01:03			*02:01	*03:01					SSP	
4251	*03:01:01G	*04:01:01G	3*01:01	4*01:03	*03:03	*05:01	*02:01:01G	*03:01:01G	*01:03	*01:03	*04:01:01G	*04:02:01G	SSO RT-PCR	
4337	*03:01	*04:01					*02:01	*03:01			*04:01	*04:02	SSP SBT NGS	
5130	*03:01	*04:01	3*01:01	4*01:03	*03:03	*05:01	*02:01	*03:01			*04:01	*04:02	SSO NGS	DPB1*126:01 DPB1*665:01 DRB1*03:147
5133	*03:01:01	*04:01:01	3*01:01:02	4*01:03:01	*03:03:01:01	*05:01:01	*02:01:01	*03:01:01	*01:03:01		*04:01:01	*04:02:01	NGS	DPB1*105:01 DPB1*665:01 DPB1*939:01N DPB1*126:01

Table 3b: Individual laboratory results for B-cell #573 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5219	*03:01:01	*04:01:01					*02:01:01	*03:01:01			*04:01:01	*04:02:01	SSO NGS	
5451	*03:01:01	*04:01:01											SSO SBT	
5488	*03:01:01	*04:01:01	3*01:01:02	4*01:03:01	*03:03	*05:01	*02:01:01	*03:01:01G	*01:03:01		*04:01:01	*04:02:01	SSP SSO SBT NGS	DRB1*03:147 DRB1*04:274 DPB1*126:01 DPB1*105:01 DPB1*665:01
5642	*03:01	*04:01					*02:01	*03:01					SSP	
8021	*03:01	*04:01	3*01:01	4*01:03	*03:03	*05:01	*02:01	*03:01	*01:03		*04:01	*04:02	SSO NGS	
8043	*03:01	*04:01			*03:03	*05:01	*02:01	*03:01					SSP SSO	
8086	*03:01	*04:01			*03:03	*05:01	*02:01	*03:01	*01:03	*01:03	*04:01	*04:02	SSO SBT	

Table 4: Individual laboratory results for B-cell #573 - Class I

Table 4: Individual laboratory results for B-cell #573 - Class I														
Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSO SBT NGS	
278	*01	*68	*08	*40	*03	*07	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSP SSO	
725	*01	*68	*08	*40	*03	*07							SSP SSO	
731	*01	*68	*08	*40	*03	*07							SSO SBT RT-PCR	
747	*01	*68	*08	*40	*03	*07	*01:01:01:01	*68:01:02:02	*08:19N	*40:01:02	*03:04:01	*07:01:01	SSP SSO NGS	
762													NGS	
771	*01	*68	*08	*40	*03	*07	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSO NGS	
774	*01	*68	*08	*40	*03	*07							SSP SSO	
792	*01	*68	*08	*40	*03	*07	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSO SBT	
793	*01	*68	*08	*40	*03	*07							SSP	
794	*01	*68	*08	*40	*03	*07	*01:01:01	*68:01:02	*08:19N	*40:01:02	*03:04:01	*07:01:01	SSP SSO NGS	
2344							*01:01:01	*68:01:02	*08:19N	*40:01:02	*03:04:01	*07:01:01	RT-PCR	
2400	*01	*68	*08	*40	*03	*07	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	NGS	
2847	*01	*68	*08	*40	*03	*07							SSO NGS	
3135													SSO	
3511							*01:01	*68:01	*08:01	*40:01	*03:04	*07:01P		
3519	*01	*68	*08	*40	*03	*07	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSP SSO	
3753	*01	*68	*08	*40	*03	*07							SSP NGS RT-PCR	
3966	*01	*68	*08	*40	*03	*07							SSP	
4079	*01	*68	*08	*40	*03	*07							SSO	
4251	*01	*68	*08	*40	*03	*07	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSO RT-PCR	
4337							*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSP SBT NGS	
5130	*01	*68	*08	*40	*03	*07	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSO NGS	
5133							*01:01:01:01	*68:01:02:02	*08:19N	*40:01:02	*03:04:01:02	*07:01:01:01	NGS	
5214	*01	*68	*08	*40(B60)	*03(Cw10)	*07							SSO	
5219	*01	*68	*08	*40	*03	*07	*01:01:01	*68:01:02	*08:19N	*40:01:02	*03:04:01	*07:01:01	SSO NGS	
5451													SSO SBT	
5462	*01	*68	*08	*40	*03	*07							RT-PCR	
5488							*01:01:01	*68:01:02	*08:19N	*40:01:02	*03:04:01	*07:01:01	SSP SSO SBT	
5642													NGS	
6649													SSP	
8021							*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSO	
8029	*01	*68	*08	*40	*03	*07							SSO NGS	
8043													SSO	
8068	*01	*68	*08	*40	*03	*07							SSP SSO	
8086							*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSO	
													SSO SBT	

Table 5a: Individual laboratory results for B-cell #574 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*04	*14	3*01	4*01	*03	*05	*03	*03	*01	*02	*01	*04	SSP SSO	
725	*04	*14	3*PRESENT	4*PRESENT	*03	*05	*03	*03					SSP SSO	
731	*04	*14	3*01	4*01	*03	*05	*03	*03	*01	*02	*01	*04	SSO SBT RT-PCR	
747	*04	*14	3*PRESENT	4*PRESENT	*03	*05	*03	*03	*01	*02	*01	*04	SSP SSO NGS	
771	*04	*14			*03	*05	*03						SSO NGS	
774	*04	*14	3*01	4*01	*03	*05	*03	*03			*01	*04(DP402)	SSP SSO	
792	*04	*14	3*01	4*01	*03	*05	*03	*03	*01	*02	*01	*04	SSO SBT	
793	*04	*14	3*01	4*01	*03	*05	*03	*03			*01	*04(DP402)	SSP	
													SSP SSO NGS	
794	*04	*14	3*01	4*01	*03	*05	*03		*01	*02	*01	*04	RT-PCR	
2400	*04	*14	3*01	4*01	*03	*05	*03	*03			*01	*04	SSO NGS	
2847	*04	*14											SSO	
3519	*04	*14			*03	*05	*03	*03	*01	*02	*01	*04(DP402)	SSP NGS RT-PCR	
3753	*04	*14	3*01	4*01	*03	*05	*03	*03	*01	*02	*01	*04(DP402)		
3966													SSP	
4079	*04	*14	3*01		*03	*05	*03	*03	*01	*02	*01	*04(DP402)	SSO	
4251	*04	*14	3*01	4*01	*03	*05	*03	*03	*01	*02	*01	*04(DP402)	SSO RT-PCR	
5130	*04	*14	3*01	4*01	*03	*05	*03	*03			*01	*04	SSO NGS	
5214	*04	*14	3*01	4*01	*03	*05	*03(DQ7)	*03(DQ8)	*01	*02	*01	*04(DP402)	SSO	
5219	*04	*14			*03	*05	*03	*03					SSO NGS	
5451	*04	*14	3*01	4*01	*03	*05	*03	*03					SSO SBT	
5462	*04	*14	3*01	4*01	*03	*05	*03	*03	NT	NT	NT	NT	RT-PCR	
5642	*04	*14	3*PRESENT	4*PRESENT			*03	*03					SSP	
6649	*04	*14											SSO	
8029	*04	*14			*03	*05	*03	*03					SSO	
8043	*04	*14			*03	*05	*03	*03					SSP SSO	
8068	*04	*14			*03	*05	*03	*03					SSO	

Table 5b: Individual laboratory results for B-cell #574 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*04:05	*14:02	3*01:01	4*01:03	*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SSO SBT NGS	
278	*04:05	*14:02	3*01:01	4*01:03	*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SSP SSO	
731	*04:05	*14:02					*03:01	*03:02					SSO SBT RT-PCR	
747	*04:05:01	*14:02:01	3*01:01:02	4*01:03:01	*03:03:01:01	*05:03:01:01	*03:01:01	*03:02:01:01	*01:03:01	*02:01:01:01	*01:01:01	*04:02:01	SSP SSO NGS	DQB1*03:289 DQB1*03:276N
762	*04:05	*14:02	3*01:01	4*01:03	*03:03	*05:03	*03:01	*03:02		*02:01	*01:01	*04:02	NGS	
771	*04:05	*14:02					*03:01	*03:02					SSO NGS	
774	*04:05	*14:02	3*01:01	4*01:03	*03:03	*05:03	*03:01	*03:02			*01:01	*04:02	SSP SSO	DQB1*03:49 DRB1*04:178N DQB1*03:92 DQB1*03:93
792	*04:05	*14:02					*03:01	*03:02			*01:01	*04:02	SSO SBT	
793					*03:03	*05:03					*01:01	*04:02	SSP	
794	*04:05:01	*14:02:01	3*01:01:02	4*01:03:01	*03:03	*05:03	*03:01:01	*03:02:01	NT	NT	*01:01:01	*04:02:01	SSP SSO NGS RT-PCR	
2344	*04:05:01	*14:02:01	NT	NT	NT	NT	*03:01:01	*03:02:01	NT	NT	*01:01:01	*04:02:01	NGS	
2400	*04:05	*14:02	3*01:01	4*01:03	*03:03	*05:03	*03:01	*03:02			*01:01	*04:02	SSO NGS	DQB1*03:276N DQB1*03:297 DQB1*03:289 DQA1*03:03
3135	*04:05:01	*14:02:01	3*01:01	4*01:03	*03:02	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02		
3511	*04:05	*14:02	3*01:01	4*01:03	*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SSP SSO	
3519	*04:05	*14:02	3*01:01	4*01:03	*03:03	*05:03	*03:01P	*03:02	*01:03	*02:01	*01:01	*04:02	SSP NGS RT-PCR	
3966	*04:05	*14:02	3*01:01	4*01:03			*03:01	*03:02					SSP	
4251	*04:05	*14:02	3*01:01	4*01:03	*03:03	*05:03	*03:01:01G	*03:02:01G	*01:03	*02:01	*01:01	*04:02	SSO RT-PCR	
4337	*04:05	*14:02					*03:01	*03:02			*01:01	*04:02	SSP SBT NGS	
5130	*04:05	*14:02	3*01:01	4*01:03	*03:03	*05:03	*03:01	*03:02			*01:01	*04:02	SSO NGS	
5133	*04:05:01	*14:02:01	3*01:01:02	4*01:03:01	*03:03:01:01	*05:03:01	*03:01:01	*03:02:01:01	*01:03:01	*02:01:01	*01:01:01	*04:02:01	NGS	
5219	*04:05:01	*14:02:01					*03:01:01	*03:02:01			*01:01:01	*04:02:01	SSO NGS	
5451	*04:05:01	*14:02:01											SSO SBT	
5488	*04:05:01	*14:02:01	3*01:01:02	4*01:03:01	*03:03:01	*05:03:01	*03:01:01G	*03:02:01	*01:03:01	*02:01:01	*01:01:01	*04:02:01	SSP SSO SBT NGS	
5642	*04:05	*14:02					*03:01	*03:02					SSP	
8021	*04:05	*14:02	3*01:01	4*01:03	*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SSO NGS	
8043	*04:05	*14:02			*03:03	*05:03	*03:01	*03:02					SSP SSO	
8086	*04:05	*14:02			*03:03	*05:03	*03:01	*03:02	*01:03	*02:01	*01:01	*04:02	SSO SBT	

Table 6: Individual laboratory results for B-cell #574 - Class I

Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSO SBT NGS	
278	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSP SSO	
725	*01	*02	*35	*82	*03	*04							SSP SSO	
731	*01	*02	*35	*82	*03	*04							SSO SBT RT-PCR	
747	*01	*02	*35	*82	*03	*04	*01:01:01	*02:01:01:01	*35:04:01	*82:01	*03:02:02	*04:01:01	SSP SSO NGS	
762													NGS	
771	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSO NGS	
774	*01	*02	*35	*82	*03	*04							SSP SSO	
792	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSO SBT	A*02:01:01:02L
793	*01	*02	*35	*82	*03	*04							SSP	
794	*01	*02	*35	*82	*03	*04	*01:01:01	*02:01:01	*35:04:01	*82:01	*03:02:02	*04:01:01	SSP SSO NGS	
2344							*01:01:01	*02:01:01	*35:04:01	*82:01	*03:02:02	*04:01:01	NGS	
2400	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSO NGS	
2847	*01	*02	*35	*82	*03	*04							SSO	
3135							*01:01	*02:01P	*35:04:01	*82:01	*03:02	*04:01P		
3511							*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSP SSO	
3519	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSP NGS RT-PCR	
3753	*01	*02	*35	*82	*03	*04								
3966	*01	*02	*35	*82	*03	*04							SSP	
4079	*01	*02	*35	*82	*03	*04							SSO	
4251	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSO RT-PCR	
4337							*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSP SBT NGS	
5130	*01	*02	*35	*82	*03	*04	*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSO NGS	
5133							*01:01:01:11	*02:01:01	*35:04:01	*82:01:01:01	*03:02:02:05	*04:01:01	NGS	
5214	*01	*02	*35	*82	*03(Cw10)	*04							SSO	
5219	*01	*02	*35	*82	*03	*04	*01:01:01	*02:01:01	*35:04:01	*82:01	*03:02:02	*04:01:01	SSO NGS	
5451													SSO SBT	
5462	*01	*02	*35	*82	*03	*04							RT-PCR	
5488							*01:01:01	*02:01:01	*35:04:01	*82:01	*03:02:02	*04:01:01	SSP SSO SBT NGS	
5642													SSP	
6649													SSO	
8021							*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSO NGS	
8029	*01	*02	*35	*82	*03	*04							SSO	
8043													SSP SSO	
8068	*01	*02	*35	*82	*03	*04							SSO	
8086							*01:01	*02:01	*35:04	*82:01	*03:02	*04:01	SSO SBT	

CELL EXCHANGE #416

The results for Cell Exchange #416 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. Eleven labs submitted low and/or high resolution class II results for

this study. We would like to thank each of them for sharing their findings and encourage other labs to do so as well. Once the criteria for grading is met (minimum 10 labs reporting for each resolution type), we will begin to grade individual class II results.

Cell 1661. The reported class I type for this sample from a Chinese donor was A*02:03-A*11:01-B*15:27-B*55:02-C*01:02-C*04:01. Good agreement ($\geq 90\%$) was achieved in allele assignments for all class I loci. Twelve labs submitted low and/or high resolution class II results for this sample, with the class II type reported as DRB1*04:06-DRB1*09:01-DRB4*01:03-DQA1*03:01-DQA1*03:02-DQB1*03:02-DQB1*03:03-DPA1*02:02-DPB1*05:01. Likely associations present in this cell were A*02:03-B*55:02-C*01:02 and A*11:01-B*15:27-C*04:01, observed exclusively in Asians, with respective HF = 0.00020 and 0.00051.

Cell 1662. The reported class I type for this sample from a Hispanic donor was A*02:01-A*24:02-B*35:14-B*44:02-C*04:01-C*05:01. Class I alleles were well assigned ($\geq 90\%$) by labs reporting at high resolution. The class II type was reported as DRB1*12:01-DRB1*16:02-DRB3*02:02-DRB5*02:02-DQA1*05:05-DQB1*03:01-DPA1*01:03-DPB1*02:01-DPB1*04:02. Likely haplotypes present in this sample were A*02:01-B*44:02-DRB1*12:01 and A*24:02-B*35:14-DRB1*16:02, with respective HF = 0.00064 and 0.00073, in Hispanic populations.

Cell 1663. The reported class I type for this cell from a Hispanic donor was A*11:12-A*31:01-B*18:01-B*40:02-C*03:06-C*07:01. This cell was previously typed as cell 1610 (2018). In this present retyping, class I allele assignments were once again reported in good agreement ($\geq 90\%$). The class II type was reported as DRB1*08:02-DRB1*11:01-DRB3*02:02-DQA1*04:01-DQA1*05:05-DQB1*03:01-DQB1*04:02-DPA1*01:03-DPB1*04:01-DPB1*04:02. The likely associations present in this cell were B*40*02-C*03:06 and B*18:01-C*07:01, observed in Hispanics, with respective HF = 0.00778 and 0.00779.

Cell 1664. The reported class I type for this cell from a donor of mixed Chinese/Filipino heritage was A*02:03-A*24:07-B*07-B*46:01-C*01:02-C*07:02. Good agreement ($\geq 90\%$) was achieved for all high resolution allele assignments, except for B*07. B*07:06 was assigned by 7 labs, 2 labs assigned B*07:05, and 1 lab assigned B*07:05:01G. The class II type was reported as DRB1*12:01-DRB1*14:04-DRB3*01:01-DQA1*01:04-DQA1*05:06-DQB1*03:01-DQB1*05:03-DPA1*02:02-DPB1*05:01. One association likely present in this cell was B*46:01-C*01:02. This is the most common association observed in Asians, with HF = 0.05797. The other association present may be B*07:05g-C*07:02, with HF = 0.000569 in Asians.

Table 7: Summary of the 416th Cell Exchange - DNA Typing

Cell 1661

DNA Typing - class I	13 labs High; 18 labs low- A		15 labs High; 18 labs low- B		13 labs High; 17 labs low- C	
		%(n)		%(n)		%(n)
	A*02:03:01	31(4)	B*15:27:01	27(4)	C*01:02:01:01	15(2)
	A*02:03	69(9)	B*15:27	73(11)	C*01:02:01	8 (1)
	A*02	100(18)	B*15(B62)	6 (1)	C*01:02:01G	8 (1)
			B*15	94(17)	C*01:02	69(9)
					C*01	100(17)
13 labs High; 18 labs low- A		14 labs High; 18 labs low- B		13 labs High; 17 labs low- C		
	%(n)		%(n)		%(n)	
A*11:01:01:01	15(2)	B*55:02:01	21(3)	C*04:01:01	23(3)	
A*11:01:01	8 (1)	B*55:02	79(11)	C*04:01P	8 (1)	
A*11:01:01G	8 (1)	B*55	100(18)	C*04:01	69(9)	
A*11:01	69(9)			C*04	100(17)	
A*11	100(18)					

DNA Typing - class II	8 labs High; 10 labs low-DRB1		6 labs High; 7 labs low-DRB3/4/5		5 labs High; 9 labs Low-DQA1		7 labs High; 9 labs Low-DQB1		5 labs High; 6 labs Low-DPA1		6 labs High; 6 labs Low-DPB1	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*04:06:01	25(2)	DRB4*01:03:01	33(2)	DQA1*03:01:01	40(2)	DQB1*03:02:01:01	14(1)	DPA1*02:02:02	40(2)	DPB1*05:01:01	33(2)
	DRB1*04:06	75(6)	DRB4*01:03	67(4)	DQA1*03:01	60(3)	DQB1*03:02:01	14(1)	DPA1*02:02	60(3)	DPB1*05:01P	17(1)
	DRB1*04	100(10)	DRB4*01	86(6)	DQA1*03	100(9)	DQB1*03:02	71(5)	DPA1*02	100(6)	DPB1*05:01	50(3)
			DRB4*PRESENT	14(1)			DQB1*03	100(9)			DPB1*05	100(6)
8 labs High; 10 labs low-DRB1		5 labs High-DQA1		7 labs High-DQB1								
	%(n)		%(n)		%(n)		%(n)		%(n)		%(n)	
DRB1*09:01:02	25(2)	DQA1*03:02	100(5)	DQB1*03:03:02	29(2)							
DRB1*09:01P	12(1)			DQB1*03:03	71(5)							
DRB1*09:01	63(5)											
DRB1*09	100(10)											

Table 8: Summary of the 416th Cell Exchange - DNA Typing

Cell 1662

DNA Typing - class I	<u>14 labs High; 17 labs low- A</u>		<u>15 labs High; 17 labs low- B</u>		<u>14 labs High; 16 labs low- C</u>	
		%(n)		%(n)		%(n)
	A*02:01:01:01	14(2)	B*35:14:01	27(4)	C*04:01:01	21(3)
	A*02:01:01	7 (1)	B*35:14:01G	7 (1)	C*04:01P	7 (1)
	A*02:01:01G	7 (1)	B*35:14	66(10)	C*04:01	71(10)
	A*02:01	71(10)	B*35	100(17)	C*04	100(16)
	A*02	100(17)				
DNA Typing - class I	<u>14 labs High; 17 labs low- A</u>		<u>14 labs High; 17 labs low- B</u>		<u>14 labs High; 16 labs low- C</u>	
		%(n)		%(n)		%(n)
	A*24:02:01	21(3)	B*44:02:01:01	7 (1)	C*05:01:01:02	14(2)
	A*24:02:01G	7 (1)	B*44:02:01	14(2)	C*05:01:01	7 (1)
	A*24:02	71(10)	B*44:02:01G	7 (1)	C*05:01:01G	7 (1)
	A*24	100(17)	B*44:02P	7 (1)	C*05:01	71(10)
			B*44:02	64(9)	C*05	100(16)
			B*44	100(17)		

DNA Typing - class II	<u>9 labs High; 9 labs low-DRB1</u>		<u>7 labs High; 6 labs low-DRB3/4/5</u>		<u>5 labs High; 8 labs Low-DQA1</u>		<u>8 labs High; 8 labs Low-DQB1</u>		<u>5 labs High; 6 labs Low-DPA1</u>		<u>7 labs High; 5 labs Low-DPB1</u>	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*12:01:01	22(2)	DRB3*02:02:01	29(2)	DQA1*05:05:01	40(2)	DQB1*03:01:01:05	12(1)	DPA1*01:03:01	40(2)	DPB1*02:01:02	29(2)
	DRB1*12:01P	11(1)	DRB3*02:02	71(5)	DQA1*05:05	60(3)	DQB1*03:01:01	12(1)	DPA1*01:03	60(3)	DPB1*02:01P	29(2)
	DRB1*12:01	67(6)	DRB3*02	83(5)	DQA1*05	100(8)	DQB1*03:01	75(6)	DPA1*01	100(6)	DPB1*02:01	42(3)
	DRB1*12	100(9)	DRB3*PRESENT	17(1)			DQB1*03	100(8)			DPB1*02(DP201)	40(2)
											DPB1*02	60(3)
DNA Typing - class II	<u>9 labs High; 9 labs low-DRB1</u>		<u>7 labs High; 6 labs low-DRB3/4/5</u>		<u>5 labs High; 8 labs Low-DQA1</u>		<u>8 labs High; 8 labs Low-DQB1</u>		<u>5 labs High; 6 labs Low-DPA1</u>		<u>7 labs High; 5 labs Low-DPB1</u>	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*16:02:01	22(2)	DRB5*02:02:01	29(2)							DPB1*04:02:01	29(2)
	DRB1*16:02	78(7)	DRB5*02:02	71(5)							DPB1*04:02P	29(2)
	DRB1*16	100(9)	DRB5*02	83(5)							DPB1*04:02	42(3)
			DRB5*PRESENT	17(1)							DPB1*04(DP402)	40(2)
											DPB1*04	60(3)

Table 9: Summary of the 416th Cell Exchange - DNA Typing

Cell 1663

DNA Typing - class I	10 labs High; 17 labs low- A		10 labs High; 17 labs low- B		11 labs High; 16 labs low- C	
		%(n)		%(n)		%(n)
	A*11:12	100(10)	B*18:01:01	20(2)	C*03:06:01	27(3)
A*11	100(17)	B*18:01:01G	10(1)	C*03:06	73(8)	
		B*18:01	70(7)	C*03(Cw10)	6 (1)	
		B*18	100(17)	C*03	94(15)	
	10 labs High; 17 labs low- A		12 labs High; 17 labs low- B		11 labs High; 16 labs low- C	
		%(n)		%(n)		%(n)
A*31:01:02:01	20(2)	B*40:02:01:01	8 (1)	C*07:01:01:16	9 (1)	
A*31:01:02	10(1)	B*40:02:01	8 (1)	C*07:01:01	9 (1)	
A*31:01:02G	10(1)	B*40:02:01G	17(2)	C*07:01:01G	18(2)	
A*31:01	60(6)	B*40:02	67(8)	C*07:01	64(7)	
A*31	100(17)	B*40(B61)	6 (1)	C*07	100(16)	
		B*40	94(16)			

DNA Typing - class II	6 labs High; 9 labs low-DRB1		4 labs High; 6 labs low-DRB3/4/5		3 labs High; 8 labs Low-DQA1		5 labs High; 8 labs Low-DQB1		4 labs High; 5 labs Low-DPA1		4 labs High; 5 labs Low-DPB1	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*08:02:01	17(1)	DRB3*02:02:01	25(1)	DQA1*04:01:01	33(1)	DQB1*03:01:01	20(1)	DPA1*01:03:01	25(1)	DPB1*04:01:01	25(1)
DRB1*08:02	83(5)	DRB3*02:02	75(3)	DQA1*04:01	67(2)	DQB1*03:01	80(4)	DPA1*01:03	75(3)	DPB1*04:01P	50(2)	
DRB1*08	100(9)	DRB3*02	100(6)	DQA1*04	100(8)	DQB1*03	100(8)	DPA1*01	100(5)	DPB1*04:01	25(1)	
										DPB1*04(DP401)	40(2)	
										DPB1*04	60(3)	
	6 labs High; 9 labs low-DRB1		3 labs High; 8 labs Low-DQA1		5 labs High; 8 labs Low-DQB1		4 labs High; 5 labs Low-DPA1		4 labs High; 5 labs Low-DPB1			
		%(n)		%(n)		%(n)		%(n)		%(n)		
DRB1*11:01:01	17(1)	DQA1*05:05:01	33(1)	DQB1*04:02:01	20(1)					DPB1*04:02:01	25(1)	
DRB1*11:01	83(5)	DQA1*05:05	67(2)	DQB1*04:02	80(4)					DPB1*04:02P	50(2)	
DRB1*11	100(9)	DQA1*05	100(8)	DQB1*04	100(8)					DPB1*04:02	25(1)	
										DPB1*04(DP402)	40(2)	
										DPB1*04	60(3)	

Table 10: Summary of the 416th Cell Exchange - DNA Typing

Cell 1664

DNA Typing - class I	11 labs High; 16 labs low- A	%(n)	10 labs High; 17 labs low- B	%(n)	10 labs High; 15 labs low- C	%(n)
	A*02:03:01	27(3)	B*07:05:01	10(1)	C*01:02:01:01	10(1)
	A*02:03:01G	9 (1)	B*07:05:01G	10(1)	C*01:02:01	10(1)
	A*02:03	64(7)	B*07:06	70(7)	C*01:02:01G	10(1)
	A*02	100(16)	B*07:05	10(1)	C*01:02	70(7)
			B*07	100(17)	C*01	100(15)

DNA Typing - class II	6 labs High; 8 labs low-DRB1	%(n)	4 labs High; 5 labs low-DRB3/4/5	%(n)	3 labs High; 7 labs Low-DQA1	%(n)	5 labs High; 7 labs Low-DQB1	%(n)	3 labs High; 5 labs Low-DPA1	%(n)	4 labs High; 4 labs Low-DPB1	%(n)
	DRB1*12:01:01	17(1)	DRB3*01:01:02	25(1)	DQA1*01:04:01	33(1)	DQB1*03:01:01	20(1)	DPA1*02:02:02	33(1)	DPB1*05:01:01	25(1)
	DRB1*12:01P	17(1)	DRB3*01:01P	25(1)	DQA1*01:04	67(2)	DQB1*03:01	80(4)	DPA1*02:02	67(2)	DPB1*05:01P	25(1)
	DRB1*12:01	67(4)	DRB3*01:01	50(2)	DQA1*01	100(7)	DQB1*03	100(7)	DPA1*02	100(5)	DPB1*05:01	50(2)
	DRB1*12	100(8)	DRB3*01	100(5)							DPB1*05	100(4)

Table 11. Summary of the 416th Cell Exchange (Cell #1661- 1664)

Serological typing

(Chinese)	
Cell 1661	
(4 Samples Typed)	
A2	100.0%
	[100.0%]
A11	100.0%
	[100.0%]
B62	75.0%
B15	25.0%
	[100.0%]
B55	100.0%
	[100.0%]
	[0.0%]
Bw6	100.0%
Others Found	

(Hispanic)	
Cell 1662	
(6 Samples Typed)	
A2	100.0%
	[100.0%]
A24	83.3%
	[83.3%]
B35	83.3%
B44	100.0%
	[100.0%]
	[0.0%]
	[0.0%]
Bw4	100.0%
Bw6	83.3%
Others Found	
Cw3	16.7%

(Hispanic)	
Cell 1663	
(2 Samples Typed)	
A11	100.0%
	[100.0%]
A31	100.0%
	[100.0%]
B18	100.0%
B61	50.0%
B40	50.0%
	[100.0%]
	[0.0%]
Bw6	100.0%
Others Found	

(Mixed)	
Cell 1664	
(4 Samples Typed)	
A2	100.0%
	[100.0%]
A24	75.0%
	[75.0%]
B7	100.0%
	[100.0%]
B46	50.0%
Cw1	25.0%
Bw6	100.0%
Others Found	
B81	25.0%

Table 12. Individual laboratory results for Cell #1661 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSP SSO	
725	*02	*11	*15	*55	*01	*04							SSO	
731	*02	*11	*15	*55	*01	*04	*02:03:01	*11:01	*15:27:01	*55:02	*01:02	*04:01	SSP SSO SBT RT-PCR	
745							*02:03:01	*11:01:01:01	*15:27:01	*55:02:01	*01:02:01	*04:01:01	SSP SSO SBT NGS	
747	*02	*11	*15	*55	*01	*04	*02:03:01	*11:01:01:01	*15:27:01	*55:02:01	*01:02:01:01	*04:01:01	SSP SSO NGS	
762							*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	NGS	
771	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSO NGS	
774	*02	*11	*15	*55	*01	*04			*15:27	*55:02				B*55:62 B*55:65
3186	*02	*11	*15	*55	*01	*04							SSO	
														C*01:127 A*11:263 C*01:85 C*01:142 C*01:150 C*01:151 C*01:164 C*01:172 C*04:322 C*04:327 C*04:330 C*04:339 C*04:348 C*04:358 C*04:375 C*04:380 C*04:388 C*04:390 C*04:391 C*04:394 C*04:395 C*04:397 C*04:398 A*11:313Q A*11:320 A*11:324 A*11:328 C*01:182 A*11:270 A*11:278 A*11:280 A*11:295 A*11:303 A*11:306 C*01:173 C*01:174 C*04:30 C*04:82 C*04:226 C*04:275 C*04:277 C*04:298 C*04:306 C*04:308 C*04:320 C*04:321 A*11:316
3545	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSO SBT	
3632	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSP SSO	
3808	*02	*11	*15	*55	*01	*04							SSO	
4079							*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSP NGS	
4251	*02	*11	*15	*55	*01	*04	*02:03	*11:01:01G	*15:27	*55:02	*01:02:01G	*04:01P	SSO SBT	
5133							*02:03:01	*11:01:01	*15:27:01	*55:02:01	*01:02:01:01	*04:01:01	NGS	
5214	*02	*11	*15(B62)	*55	*01	*04							SSO	
5462	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSO NGS	
6649	*02	*11	*15	*55									SSO	
8001	*02	*11	*15	*55	*01	*04			*15:27				SSP SSO	
8043	*02	*11	*15	*55	*01	*04	*02:03	*11:01	*15:27	*55:02	*01:02	*04:01	SSP SSO	
8103	*02	*11	*15	*55	*01	*04							SSO	
													SSP SSO SBT NGS RT-PCR	
8119	*02	*11	*15	*55	*01	*04								

Table 13a: Individual laboratory results for Cell #1661 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*04	*09	4*PRESENT	4*PRESENT	*03	*03	*03	*03	*02		*05		SSP SSO NGS	
771	*04	*09			*03		*03	*03					SSO NGS	
3186	*04	*09	4*01	4*01	*03	*03	*03	*03	*02	*02	*05	*05	SSO	
3545	*04	*09											SSO SBT	
3632	*04	*09	4*01		*03	*03	*03	*03	*02		*05		SSP SSO	
3808	*04	*09			*03	*03	*03	*03	*02	*02	*05	*05	SSO	
5462	*04	*09	4*01	4*01	*03	*03	*03	*03	*02		NT		SSO NGS	
8001	*04	*09	4*01		*03	*03	*03	*03					SSP SSO	
8103	*04	*09	4*01	4*01	*03	*03	*03	*03	*02	*02	*05	*05	SSO	
8119	*04	*09	4*01		*03	*03	*03	*03			*05		SSP SSO SBT NGS RT-PCR	

Table 13b: Individual laboratory results for Cell #1661 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*04:06:01	*09:01:02	4*01:03:01	4*01:03:02	*03:01:01	*03:02	*03:02:01:01	*03:03:02	*02:02:02		*05:01:01		SSP SSO NGS	DRB1*09:31 DQB1*03:289
771	*04:06	*09:01					*03:02	*03:03					SSO NGS	
3545	*04:06	*09:01											SSO SBT	DRB1*09:21 DRB1*09:31
3632	*04:06	*09:01	4*01:03		*03:01	*03:02	*03:02	*03:03	*02:02		*05:01P		SSP SSO	
4079	*04:06	*09:01	4*01:03		*03:01	*03:02	*03:02	*03:03	*02:02		*05:01		SSP NGS	
5133	*04:06:01	*09:01:02	4*01:03:01	4*01:03:02	*03:01:01	*03:02	*03:02:01	*03:03:02	*02:02:02		*05:01:01		NGS	DRB1*09:21 DRB1*09:31 DQB1*03:289
5462	*04:06	*09:01P	4*01:03	4*01:03	*03:01	*03:02	*03:02	*03:03	*02:02		*05:01		SSO NGS	DRB1*09:31
8001	*04:06	*09:01	4*01:03				*03:02	*03:03			*05:01		SSP SSO	

Table 14. Individual laboratory results for Cell #1662 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSP SSO	
725	*02	*24	*35	*44	*04	*05							SSO	
731	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14:01	*44:02	*04:01	*05:01	SSP SSO SBT RT-PCR	
745							*02:01:01:01	*24:02:01	*35:14:01	*44:02:01	*04:01:01	*05:01:01:02	SSP SSO SBT NGS	
747	*02	*24	*35	*44	*04	*05	*02:01:01:01	*24:02:01	*35:14:01	*44:02:01:01	*04:01:01	*05:01:01:02	SSP SSO NGS	
762							*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	NGS	
771	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSO NGS	
774	*02	*24	*35	*44	*04	*05			*35:14					
3186	*02	*24	*35	*44	*04	*05							SSO	
														A*02:686 A*02:689 A*02:704 A*02:742 A*02:744 A*02:753 A*02:761 A*02:762 A*02:763 A*02:810 A*02:812 A*02:819 A*24:352 A*24:353 A*24:402 A*24:418 A*24:419 A*24:422 C*04:30 C*04:82 C*04:226 C*04:275 C*04:277 C*04:298 C*04:306 C*04:308 C*04:320 C*04:321 C*04:380 C*04:388 C*04:390 C*04:391 C*04:395 C*04:397 C*04:398 A*02:795Q A*02:830 A*02:844 A*02:846 A*02:852 A*02:853 A*02:864 A*24:466 A*24:469 A*24:470 B*44:344 B*44:437 B*44:457 B*44:464 B*44:467 B*44:468 B*44:470 B*44:473 C*05:212 C*05:222 B*35:390N A*02:629 A*02:642 A*02:665 A*02:716 A*02:719 A*02:722 A*02:724 A*02:740+
3545	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSO SBT	
3632	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSP SSO	
3808	*02	*24	*35	*44	*04	*05							SSO	
4079							*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSP NGS	
4251	*02	*24	*35	*44	*04	*05	*02:01:01G	*24:02:01G	*35:14:01G	*44:02:01G	*04:01P	*05:01:01G	SSO SBT	
5133							*02:01:01	*24:02:01	*35:14:01	*44:02:01	*04:01:01	*05:01:01	NGS	
5214	*02	*24	*35	*44	*04	*05							SSO	
5462	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02P	*04:01	*05:01	SSO NGS	B*44:470
6649	*02	*24	*35	*44									SSO	
8001	*02	*24	*35	*44	*04	*05							SSP SSO	
8043	*02	*24	*35	*44	*04	*05							SSP SSO	
8103	*02	*24	*35	*44	*04	*05	*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSP SSO	
8119							*02:01	*24:02	*35:14	*44:02	*04:01	*05:01	SSP SSO SBT NGS RT-PCR	

Table 15a: Individual laboratory results for Cell #1662 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*12	*16	3*PRESENT	5*PRESENT	*05		*03	*03	*01		*02	*04	SSP SSO NGS	
771	*12	*16			*05		*03						SSO NGS	
3186	*12	*16	3*02	5*02	*05	*05	*03	*03	*01	*01	*02(DP201)	*04(DP402)	SSO	
3545	*12	*16											SSO SBT	
3632	*12	*16	3*02	5*02	*05		*03		*01		*02	*04	SSP SSO	
3808	*12	*16			*05	*05	*03	*03	*01	*01	*02(DP201)	*04(DP402)	SSO	
5462	*12	*16	3*02	5*02	*05		*03		*01		NT	NT	SSO NGS	
8001	*12	*16	3*02	5*02	*05		*03						SSP SSO	
8103	*12	*16	3*02	5*02	*05	*05	*03	*03	*01	*01	*02	*04	SSO	

Table 15b: Individual laboratory results for Cell #1662 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*12:01:01	*16:02:01	3*02:02:01	5*02:02:01	*05:05:01		*03:01:01	*03:01:01	*01:03:01		*02:01:02	*04:02:01	SSP SSO NGS	DRB1*12:10 DQB1*03:276N DPB1*105:01 DPB1*665:01 DPB1*416:01
771	*12:01	*16:02					*03:01						SSO NGS	
3545	*12:01	*16:02											SSO SBT	DRB1*12:10
3632	*12:01	*16:02	3*02:02	5*02:02	*05:05		*03:01		*01:03		*02:01P	*04:02P	SSP SSO	
4079	*12:01	*16:02	3*02:02	5*02:02	*05:05		*03:01		*01:03		*02:01	*04:02	SSP NGS	
5133	*12:01:01	*16:02:01	3*02:02:01	5*02:02:01	*05:05:01		*03:01:01:05	*03:01:01	*01:03:01		*02:01:02	*04:02:01	NGS	DRB1*12:10 DPB1*105:01 DPA1*01:03:08 DPB1*416:01 DPB1*665:01
5462	*12:01P	*16:02	3*02:02	5*02:02	*05:05		*03:01		*01:03		*02:01P	*04:02P	SSO NGS	DPB1*416:01 DPB1*105:01 DPB1*665:01 DRB1*12:10
8001	*12:01	*16:02	3*02:02	5*02:02			*03:01				*02:01	*04:02	SSP SSO	
8119	*12:01	*16:02	3*02:02	5*02:02			*03:01				*02:01	*04:02	SSP SSO SBT NGS RT-PCR	DPB1*416:01 DPB1*105:01 DPB1*665:01 DRB1*12:10

16. Individual laboratory results for Cell #1663 - Class I

Low Resolution						High Resolution							
HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		Method	Other Alleles
*11	*31	*18	*40	*03	*07	*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	SSP SSO	
*11	*31	*18	*40	*03	*07							SSO	
*11	*31	*18	*40	*03	*07	*11:12	*31:01:02	*18:01	*40:02	*03:06:01	*07:01	SSP SSO SBT RT-PCR	
						*11:12	*31:01:02:01	*18:01:01	*40:02:01	*03:06:01	*07:01:01	SSP SSO SBT NGS	
NT												SSP SSO NGS	
						*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	NGS	
*11	*31	*18	*40	*03	*07	*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	SSO NGS	
*11	*31	*18	*40	*03	*07								
*11	*31	*18	*40	*03	*07							SSO	
													A*31:119 B*18:17N B*18:131 B*18:144 B*18:145 B*18:159 B*18:160 B*18:177 B*18:181 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*07:617 C*07:618 C*07:619 C*07:657 C*07:682 C*07:687 C*07:696 C*07:721 A*31:135 C*07:781 C*07:782 +
*11	*31	*18	*40	*03	*07	*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	SSO SBT	
*11	*31	*18	*40	*03	*07	*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	SSP SSO	
*11	*31	*18	*40	*03	*07				*40:02:01G		*07:01:01G	SSO	
NT												SSP NGS	
*11	*31	*18	*40	*03	*07	*11:12	*31:01:02G	*18:01:01G	*40:02:01G	*03:06	*07:01:01G	SSO SBT	
						*11:12	*31:01:02:01	*18:01:01	*40:02:01:01	*03:06:01	*07:01:01:16	NGS	
*11	*31	*18	*40(B61)	*03(Cw10)	*07							SSO	
*11	*31	*18	*40	*03	*07	*11:12	*31:01	*18:01	*40:02	*03:06	*07:01	SSO NGS	
*11	*31	*18	*40									SSO	
*11	*31	*18	*40	*03	*07				*40:02	*03:06		SSP SSO	
*11	*31	*18	*40	*03	*07							SSP SSO	
*11	*31	*18	*40	*03	*07							SSO	
												SSP SSO SBT	
*11	*31	*18	*40	*03	*07							NGS RT-PCR	

Table 17a: Individual laboratory results for Cell #1663 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*08	*11			*04	*05	*03	*04					SSO NGS	
774														
3186	*08	*11	3*02	NP	*04	*05	*03	*04	*01	*01	*04(DP401)	*04(DP402)	SSO	
3545	*08	*11											SSO SBT	
3632	*08	*11	3*02		*04	*05	*03	*04	*01		*04	*04	SSP SSO	
3808	*08	*11			*04	*05	*03	*04	*01	*01	*04(DP401)	*04(DP402)	SSO	
5462	*08	*11	3*02	NP	*04	*05	*03	*04	*01	*01	NT	NT	SSO NGS	
8001	*08	*11	3*02		*04	*05	*03	*04					SSP SSO	
8103	*08	*11	3*02	3*02	*04	*05	*03	*04	*01	*01	*04	*04	SSO	
													SSP SSO SBT	
8119	*08	*11	3*02		*04	*05	*03	*04			*04	*04	NGS RT-PCR	

Table 17b: Individual laboratory results for Cell #1663 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*08:02	*11:01					*03:01	*04:02					SSO NGS	
3545	*08:02	*11:01											SSO SBT	
3632	*08:02	*11:01	3*02:02		*04:01	*05:05	*03:01	*04:02	*01:03		*04:01P	*04:02P	SSP SSO	
3808									*01:03	*01:03			SSO	
4079	NT												SSP NGS	
														DPB1*105:01 DPB1*126:01 DPB1*665:01 DPB1*939:01N
5133	*08:02:01	*11:01:01	3*02:02:01		*04:01:01	*05:05:01	*03:01:01	*04:02:01	*01:03:01		*04:01:01	*04:02:01	NGS	
5462	*08:02	*11:01	3*02:02	NP	*04:01	*05:05	*03:01	*04:02	*01:03	*01:03	*04:01P	*04:02P	SSO NGS	DPB1*126:01 DPB1*105:01 DPB1*665:01
8001	*08:02	*11:01	3*02:02				*03:01	*04:02			*04:01	*04:02	SSP SSO	

Table 18. Individual laboratory results for Cell #1664 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:06	*46:01	*01:02	*07:02	SSP SSO	
725	*02	*24	*07	*46	*01	*07							SSO	
731	*02	*24	*07	*46	*01	*07	*02:03:01	*24:07	*07:05:01	*46:01:01	*01:02	*07:02	SSP SSO SBT RT-PCR	
745							*02:03:01	*24:07:01	*07:06	*46:01:01	*01:02:01	*07:02:01	SSP SSO SBT NGS	
747	NT												SSP SSO NGS	
762							*02:03	*24:07	*07:06	*46:01	*01:02	*07:02	NGS	
771	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:06	*46:01	*01:02	*07:02	SSO NGS	
774	*02	*24	*07	*46	*01	*07		*24:07						A*24:288
3186	*02	*24	*07	*46	*01	*07							SSO	
														B*07:06 B*46:39 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*07:50 C*07:349 C*07:566 C*07:592 C*07:594 C*07:595 C*07:596 C*07:612 C*07:665 C*07:666 C*07:667 C*07:684 C*07:688 C*07:703 C*07:704 C*07:722 C*07:767 C*07:801 C*07:807N C*07:809 C*07:810 B*07:324 C*01:182 C*07:736 C*07:741 C*07:769 C*07:779 C*07:783 C*07:789 C*07:791
3545	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:05	*46:01	*01:02	*07:02	SSO SBT	
3632	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:06	*46:01	*01:02	*07:02	SSP SSO	
3808	*02	*24	*07	*46	*01	*07	*02:03:01G	*24:07				*07:02:01G	SSO	
4079	NT												SSP NGS	
4251	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:05:01G	*46:01	*01:02:01G	*07:02:01G	SSO SBT	
5133							*02:03:01	*24:07:01	*07:06	*46:01:01	*01:02:01:01	*07:02:01:01	NGS	
5214	*02	*24	*07	*46	*01	*07							SSO	
5462	*02	*24	*07	*46	*01	*07	*02:03	*24:07	*07:06	*46:01	*01:02	*07:02	SSO NGS	
6649	*02	*24	*07	*46									SSO	
8001	*02	*24	*07	*46	*01	*07							SSP SSO	
8043	*02	*24	*07	*46	*01	*07							SSP SSO	
8103	*02	*24	*07	*46	*01	*07							SSO	
8119	NT												SSP SSO SBT NGS RT-PCR	

Table 19a: Individual laboratory results for Cell #1664 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*12	*14			*01	*05	*03	*05					SSO NGS	
3186	*12	*14	3*01	3*01	*01	*05	*03	*05	*02	*02	*05	*05	SSO	
3545	*12	*14											SSO SBT	
3632	*12	*14	3*01		*01	*05	*03	*05	*02		*05		SSP SSO	
3808	*12	*14			*01	*05	*03	*05	*02	*02	*05	*05	SSO	
5462	*12	*14	3*01		*01	*05	*03	*05	*02		NT		SSO NGS	
8001	*12	*14	3*01		*01	*05	*03	*05					SSP SSO	
8103	*12	*14	3*01	3*01	*01	*05	*03	*05	*02	*02	*05	*05	SSO	
8119	NT												SSP SSO SBT NGS RT-PCR	

Table 19b: Individual laboratory results for Cell #1664 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*12:01	*14:04					*03:01	*05:03					SSO NGS	
3545	*12:01	*14:04											SSO SBT	DRB1*12:10
3632	*12:01	*14:04	3*01:01		*01:04	*05:06	*03:01	*05:03	*02:02		*05:01P		SSP SSO	
4079	NT												SSP NGS	
5133	*12:01:01	*14:04	3*01:01:02		*01:04:01	*05:06	*03:01:01	*05:03:01	*02:02:02		*05:01:01		NGS	
5462	*12:01P	*14:04	3*01:01P		*01:04	*05:06	*03:01	*05:03	*02:02		*05:01		SSO NGS	DRB1*12:10 DRB3*01:62
8001	*12:01	*14:04	3*01:01				*03:01	*05:03			*05:01		SSP SSO	

Table 20. Individual laboratory results for Cell #1661-1664 by serology

Investigator	Days Old	Cell No 1661 (Chinese)							Cell No 1662 (Hispanic)							Cell No 1663 (Hispanic)						Cell No 1664 (Mixed)									
		Viab %	A2	A11	B62	B55	Bw6	OTHERS	Viab %	A2	A24	B35	B44	Bw4	Bw6	OTHERS	Viab %	A11	A31	B18	B61	Bw6	OTHERS	Viab %	A2	A24	B7	B46	Cw1	Bw6	OTHERS
Cecka, J. Mic	3	>95	+	+	+	+	+		>95	+	+	+	+	+	+		>95	+	+	+	+	+		>95	+	+	+	+	+		
Fort, Marylis	3	80	+	+	+	+	+		80	+	+	+	+	+	+									NT							
Loewenthal ,	6								NT								NT							NT							
Meyer, Pieter		0							60	+			+	+			0							60	+		+		+		
Permpikul, Ve	7								NT								NT							NT							
Shai, Isaac	15	NT							82	+	+	+	+	+	+	Cw3	NT							80	+	+	+		+	+	B81
Villard, Jean	6	100	+	+	B15	+	+		100	+	+	+	+	+	+																
Walsh, Lisa	3	90	+	+	+	+	+		90	+	+	+	+	+	+		95	+	+	+	B40	+		90	+	+	+	+	+		

SERUM EXCHANGE #574

The results for Serum Exchange #574 are summarized in Tables 21 - 28 and individual listing of results are shown in tables 29 - 41. Serum strongly

positive to a number of 5C, 7C, 10C, and DR specificities were examined in this study.

1289	method	#labs	A11	A1101	A1102	A25	A26	A3	A34	A1	A66	A6601	A6602	A43	A36	A29	A30	A31	B7	B35	B60	B61	B62	B67	B75	B76	B71	B72	B18	B45	
class I	NIH-Std	1	NT																												
	NIH-Ext	1	NEG																												
	AHG	2	100%			50%	50%	50%	50%	50%	50%																				
	Flow	1	no specificities assigned																												
	PRA	4	25%	50%	50%	75%	75%	75%	50%	50%	25%	50%	25%	50%	50%	75%	50%	75%	50%	25%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	
	C1q	2	50%	50%	50%								50%																		
	SAB	24	92%	21%	21%	100%	100%	96%	92%	92%	88%	25%	17%	100%	96%	92%	92%	88%	96%	96%	96%	88%	92%	92%	96%	96%	92%	92%	92%	92%	

1289	method	#labs	B8	B50	B42	B81	B8101	B48	B54	B55	B56	B41	A80	A32	A33	A74	A68	A69	B39	B3901	B64	B65	B27	B2708	B82	B78	B7801	B703	A1C	Bw6
	PRA	4	25%	25%	25%	25%	50%	50%	25%	25%	25%	25%	50%	50%	50%	50%	25%	25%	25%	25%	25%	25%		50%	25%		25%	25%		
	SAB	24	88%	88%	88%	88%	12%	83%	83%	83%	79%	83%	88%	75%	79%	79%	83%	33%	79%	25%	79%	33%	46%	58%	38%	54%		17%	17%	17%

1289	method	#labs	DR4	DR53	DR52	DR9	DR18	DR3	DR7	DR8
class II	NIH-Ext	1	NEG							
	Flow	1	no specificities assigned							
	PRA	4	75%	50%	25%	25%	25%			
	C1q	1	NT							
	SAB	22	100%	100%	36%	23%	18%		18%	9%

Serum 1289. This sample was reported as negative by CDC. Antiglobulin, PRA, C1q, and single antigen (SAB) labs reported strong anti-A11 (A1101, A1102) reactivity, with median MFI = 10954. Additional reactivity to A25 (7424), A26 (5290), A3 (2409), A34 (2366), A1 (2732), and A66 (A6601,

A6602) (4749) was also detected by these same labs. In addition, PRA and SAB reported reactivity to a number of 1C, 5C, and 7C specificities. Strong anti-DR4 reactivity (15996), along with reactivity to DR53 (4186) was detected by PRA and SAB as well.

1290	method	#labs	B7	B27	B2708	B42	B47	B54	B55	B56	B60	B61	B48	B81	B8101	B67	B73	Cw1	A3	B13	B57	B82		
class I	NIH-Std	1	no consensus																					
	NIH-Ext	1	no consensus																					
	AHG	2	100%	50%		50%	50%	50%	50%	50%	50%	50%	50%											
	Flow	1	no specificities assigned																					
	PRA	4	75%	75%	50%	75%	50%	75%	75%	75%	75%	75%	25%	50%		75%		75%	75%	50%	75%			
	C1q	2	100%	100%	50%	100%								50%	50%	100%	100%							
	SAB	24	100%	100%	33%	100%	100%	100%	100%	100%	100%	96%	96%	92%	21%	100%	100%	100%	100%	96%	96%	96%		
1290	method	#labs	A66	A6602	B703	B63	B64	Cw1	Cw14	Cw2	Cw9	Cw15	B58	B39	B3901	B46	Cw10	A24	A80	Cw12	A1	A11	A36	
	PRA	4	25%	25%	50%	25%	25%	50%	50%	25%			25%											
	SAB	24	58%	54%	21%	92%	79%	100%	96%	79%	58%	46%	79%	67%	12%	46%	25%	17%	17%	17%	17%	12%	12%	12%

1290	method	#labs	DR15	DR16	DQ6	DQ5	DQ4	DPw3	DPw6	DP17	DP9	DP14	DQA1*01	
class II	NIH-Ext	1	undetermined											
	Flow	1	no specificities assigned											
	PRA	4	75%	75%	75%	75%	25%	50%	50%	25%	25%	25%	50%	
	C1q	1	NT											
	SAB	22	100%	100%	100%	100%	86%	86%	86%	82%	82%	77%	36%	
1290	method	#labs	DR51	DP20	DP10	DP11	DP19	DPA1*03	DPw5	DQA1*03	DPw1	DP13		
	SAB	22	77%	64%	27%	14%	14%	14%	14%	14%	14%	14%		

Serum 1290. For this sample, strong anti-B7 (18482) reactivity was reported by all methods, except Flow. Additional reactivity to a number of 7C specificities was also reported by various methods, including B27 (18341), B42 (13532), B47 (6576), B48 (10877), B54 (13202), B55 (14226), B56 (14340),

B60 (11714), and B61 (9719). Anti-DR15 (4712), -DR16 (3256), -DQ5 (3529), and -DQ6 (33344) reactivity was detected in this cell by PRA and SAB labs. Additional reactivity to DQ4 and reactivity to a number of DP specificities was also reported.

1291	method	#labs	B35	B53	B49	B50	B51	B52	B62	B75	B18	B56	B57	B58	B54	B55	B63	B70	B71	B46	B72	B77	B37	B78	B7801	A29
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%											
	Flow	1	no specificities assigned																							
	PRA	4	75%	75%	75%	75%	75%	75%	75%	75%	50%	50%	75%	50%	50%		75%	50%	50%	50%	75%	75%	50%	50%	25%	50%
	C1q	2	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%		100%		100%	100%	100%	100%	50%	50%		50%
	SAB	24	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	38%	100%		100%	100%	100%	100%	96%	96%	17%	100%
1291	method	#labs	A25	A66	A6601	A32	A43	B8	B38	B64	B65	B76	B59	A11	1101	1102	Cw3	Cw9	Cw10	A23	A24	A2403	B41	B13	A26	A2
	AHG																25%									
	PRA	4	50%	25%	25%	50%	50%	50%	50%	50%	50%	50%	50%		25%	25%							25%			
	C1q	2																50%	50%							
	SAB	24	100%	92%	17%	100%	100%	100%	100%	100%	100%	100%	100%	71%		12%		100%	100%	67%	67%	12%	67%	58%	58%	42%
1291	method	#labs	B39	B3901	B48	B67	B27	B44	A34	A68	A69	A33	Cw15	Cw18	Cw2	Cw17	Cw4	Cw5	Cw6	B5C	Bw4	B14	B47	B15		
	SAB	24	88%	29%	38%	38%	29%	29%	75%	75%	67%	67%	58%	54%	42%	38%	21%	21%	17%	17%	17%	12%	12%	12%		

1291	method	#labs	DR1	DR103	DR11	DR12	DR13	DR14	DR1403	DR1404	DR15	DR16	DR17	DR18	DR3	DR4	DR52	DR8	DR9	DR51	DR10				
class II	NIH-Ext	1	undetermined																						
	Flow	1	no specificities assigned																						
	PRA	4	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%						
	C1q	1	NT																						
	SAB	22	100%	95%	100%	100%	100%	100%	23%	23%	100%	100%	100%	100%	4%	100%	100%	100%	95%	77%	73%				

Serum 1291. Strong class I reactivity was reported in this sample. Anti-B35 (22082) reactivity was detected by all methods except Flow, while NIH-extended, C1q, antiglobulin, PRA, and SAB also reported reactivity to B53 (21834), B49 (21265), B51 (22532), B52 (14368), and B75 (17962). Additional reactivity to other 5C specificities, as well as reactivity to B54 (12275), B37

(5792), and A29 (11669) was reported by various methods. Class II reactivity was also detected in this sample, with PRA and SAB each reporting reactivity to a number of DR specificities, including DR1 (3202), DR103 (3327), DR11 (5818), DR12 (4302), DR13 (6126), DR14 (5701), DR15 (5488), DR16 (5548), DR17 (5030), and DR18 (4323). Allele specific DRB1*14:03 and DRB4*14:04 reactivity was also reported by some labs.

1292	method	#labs	A29	A43	A26	A30	A31	A74	A1	A33	A34	A36	A80	A66	A6601	A6602	
class I	NIH-Std	1	NT														
	NIH-Ext	1	no consensus														
	AHG	2			50%	50%	50%	50%									
	Flow	1	no specificities assigned														
	PRA	4	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	25%	25%	
	C1q	2	100%	100%													
	SAB	24	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	92%	21%	21%	
1292	method	#labs	A11	A1102	A1101	B7	B42	B81	B8101	B67	B55	B56	B82	A1C	B48	A10C	
	PRA	4	25%	25%	25%	75%	25%	25%	25%		25%		25%				
	SAB	24	71%	12%		88%	71%	71%		71%	67%	62%	33%	17%	17%	12%	

1292	method	#labs	DR7	DR9	DQ7	DQ8	DQ9	DQ4	DPw5	DPw1	DP11	DP13	DP19	DP14	DP15	DP9	DP17	DP28	
class II	NIH-Ext	1	undetermined																
	Flow	1	no specificities assigned																
	PRA	4	75%	75%	75%	75%	75%	50%	50%	25%	50%	25%	50%	25%	25%	50%	25%	25%	
	C1q	1	no consensus																
	SAB	22	100%	100%	100%	100%	100%	86%	100%	91%	86%	86%	82%	73%	23%	73%	68%	14%	
1292	method	#labs	DPA1*02	DQA1*02	DQA1*03	DQA1*04	DQA1*06	DQ2	DPw4	DPw6	DPw3	DP10	DP18	DQA1*05	DP20	DPA1*03	DPA1*04	DQ3	
	PRA	4	25%	25%	25%	25%	25%												
	SAB	22	41%	59%	27%	23%	27%	55%	55%	55%	50%	45%	32%	27%	18%	14%	14%	14%	

Serum 1292. Anti-A29 (12080) reactivity was detected in this sample by all methods except NIH-standard and Flow. Additional reactivity to a number of 1C and 10C specificities, including reactivity to A43 (8653), A26 (8567), A30 (6948), A31 (4952), and A74 (4706), was reported by various methods. In

addition, reactivity to a number 7C specificities was reported by PRA and SAB. Class II reactivity was also reported in this sample with C1q, PRA and SAB reporting strong reactivity to DR and DQ antigens, including DR7 (18310), DR9 (9254), DQ7 (15968), DQ8 (17111), and DQ9 (15880).

NEXT MAILING DATE: June 24, 2020

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Table 21. Summary of the 574th Serum Exchange (Serum #1289-1292) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard											
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NT			no consensus			no consensus			no consensus		

Method: NIH-Extended											
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

Table 22. Summary of the 574th Serum Exchange (Serum #1289-1292) by Antiglobulin and Flow Cytometry- class I

Method: Antiglobulin												
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***			
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
A11	100%	100%	B7	100%	100%	B53	100%	100%	A26	50%	75%	
A26	50%	100%	B27	50%	100%	B35	100%	75%	A31	50%	60%	
A66	50%	100%	B42	50%	100%	B49	50%	100%	A30	50%	40%	
A1	50%	73%	B47	50%	100%	B50	50%	100%	A74	50%	25%	
A34	50%	100%	B48	50%	100%	B51	50%	100%				
A25	50%	50%	B54	50%	100%	B52	50%	100%				
A3	50%	36%	B55	50%	100%	B56	50%	100%				
			B56	50%	100%	B57	50%	100%				
			B81	50%	100%	B62	50%	100%				
			B60	50%	83%	B70	50%	100%				
			B61	50%	83%	B75	50%	100%				
						B55	50%	60%				
						B18	50%	38%				

Method: Flow Cytometry												
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***			
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 23. Summary of the 574th Serum Exchange (Serum #1289-1292) by PRA - class I

Method: Luminex-PRA											
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***		
4 typing Labs			4 typing Labs			4 typing Labs			4 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A25	75%	100%	A3	75%	100%	B35	75%	100%	A1	75%	100%
A26	75%	100%	B13	75%	100%	B49	75%	100%	A26	75%	100%
A29	75%	100%	B27	75%	100%	B50	75%	100%	A29	75%	100%
A3	75%	100%	B42	75%	100%	B51	75%	100%	A30	75%	100%
B7	75%	100%	B48	75%	100%	B52	75%	100%	A31	75%	100%
A1	50%	100%	B54	75%	100%	B53	75%	100%	A33	75%	100%
A1101	50%	100%	B55	75%	100%	B57	75%	100%	A34	75%	100%
A1102	50%	100%	B56	75%	100%	B62	75%	100%	A3	50%	100%
A30	50%	100%	B60	75%	100%	B63	75%	100%	A36	50%	100%
A31	50%	100%	B61	75%	100%	B72	75%	100%	A43	50%	100%
A32	50%	100%	B67	75%	100%	B75	75%	100%	A66	50%	100%
A33	50%	100%	B7	75%	100%	B77	75%	100%	A74	50%	100%
A34	50%	100%	B73	75%	100%	A25	50%	100%	A80	50%	100%
A36	50%	100%	B82	75%	100%	A29	50%	100%	B7	50%	100%
A43	50%	100%	B2708	50%	100%	A32	50%	100%	A11	25%	100%
A6601	50%	100%	B47	50%	100%	A43	50%	100%	A1101	25%	100%
A74	50%	100%	B57	50%	100%	B18	50%	100%	A1102	25%	100%
A80	50%	100%	B703	50%	100%	B37	50%	100%	A6601	25%	100%
B18	50%	100%	B8101	50%	100%	B38	50%	100%	A6602	25%	100%
B2708	50%	100%	Cw1	50%	100%	B46	50%	100%	B42	25%	100%
B35	50%	100%	Cw14	50%	100%	B54	50%	100%	B55	25%	100%
B45	50%	100%	A66	25%	100%	B56	50%	100%	B81	25%	100%
B48	50%	100%	A6602	25%	100%	B58	50%	100%	B8101	25%	100%
B61	50%	100%	B58	25%	100%	B59	50%	100%	B82	25%	100%
B62	50%	100%	B63	25%	100%	B64	50%	100%			
B67	50%	100%	B64	25%	100%	B65	50%	100%			
B71	50%	100%	B81	25%	100%	B71	50%	100%			
B72	50%	100%	Cw2	25%	100%	B76	50%	100%			
B75	50%	100%				B78	50%	100%			
B76	50%	100%				B8	50%	100%			
B8101	50%	100%				A1101	25%	100%			
A11	25%	100%				A1102	25%	100%			
A66	25%	100%				A2403	25%	100%			
A6602	25%	100%				A33	25%	100%			

Table 24. Summary of the 574th Serum Exchange (Serum #1289-1292) by C1q - class I

Method: C1q											
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A11	50%	100%	B27	100%	100%	B18	100%	100%	A29	100%	100%
A1101	50%	100%	B42	100%	100%	B35	100%	100%	A43	100%	100%
A1102	50%	100%	B67	100%	100%	B46	100%	100%			
A43	50%	100%	B7	100%	100%	B49	100%	100%			
			B73	100%	100%	B50	100%	100%			
			B2708	50%	100%	B51	100%	100%			
			B81	50%	100%	B52	100%	100%			
			B8101	50%	100%	B53	100%	100%			
						B56	100%	100%			
						B57	100%	100%			
						B58	100%	100%			
						B62	100%	100%			
						B63	100%	100%			
						B71	100%	100%			
						B72	100%	100%			
						B75	100%	100%			
						B77	100%	100%			
						A29	50%	100%			
						B37	50%	100%			
						B54	50%	100%			
						B59	50%	100%			
						B78	50%	100%			
						Cw10	50%	100%			
						Cw9	50%	100%			

Table 25. Summary of the 574th Serum Exchange (Serum #1289-1292) by Single Antigen - class I

Method: Luminex - SAB											
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***		
24 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%	B27	100%	100%	A25	100%	100%	A1	100%	100%
A26	100%	100%	B42	100%	100%	A29	100%	100%	A26	100%	100%
A43	100%	100%	B47	100%	100%	A32	100%	100%	A29	100%	100%
A36	96%	100%	B54	100%	100%	A43	100%	100%	A30	100%	100%
B35	96%	100%	B55	100%	100%	B18	100%	100%	A31	100%	100%
B60	96%	100%	B56	100%	100%	B35	100%	100%	A33	100%	100%
B76	96%	100%	B60	100%	100%	B38	100%	100%	A34	100%	100%
A3	96%	86%	B61	100%	100%	B46	100%	100%	A36	100%	100%
B7	96%	80%	B67	100%	100%	B49	100%	100%	A43	100%	100%
B75	96%	80%	B7	100%	100%	B50	100%	100%	A74	100%	100%
A11	92%	100%	B73	100%	100%	B51	100%	100%	A80	100%	100%
A30	92%	100%	Cw1	100%	100%	B52	100%	100%	A66	92%	100%
A34	92%	100%	A3	100%	71%	B53	100%	100%	B7	88%	100%
B62	92%	100%	B13	96%	100%	B54	100%	100%	A3	88%	71%
B67	92%	100%	B48	96%	100%	B56	100%	100%	A11	71%	100%
B71	92%	100%	B57	96%	100%	B57	100%	100%	B42	71%	100%
B72	92%	100%	B82	96%	100%	B58	100%	100%	B81	71%	100%
A29	92%	88%	Cw14	96%	40%	B59	100%	100%	B67	71%	67%
B18	92%	80%	B81	92%	100%	B62	100%	100%	B55	67%	100%
B45	92%	75%	B63	92%	50%	B63	100%	100%	B56	62%	100%
A1	92%	70%	Cw2	79%	100%	B64	100%	100%	B82	33%	100%
A31	88%	100%	B64	79%	50%	B65	100%	100%	A6601	21%	100%
A66	88%	100%	B58	79%	33%	B71	100%	100%	A6602	21%	100%
B42	88%	100%	B39	67%	100%	B72	100%	100%	A1C	17%	100%
B61	88%	100%	Cw9	58%	100%	B75	100%	100%	B48	17%	100%
B8	88%	100%	A66	58%	50%	B76	100%	100%	A10C	12%	100%
B81	88%	100%	A6602	54%	100%	B77	100%	100%	A1102	12%	42%
A80	88%	67%	B46	46%	100%	B8	100%	100%			
B50	88%	67%	Cw15	46%	100%	Cw10	100%	100%			
A68	83%	100%	B2708	33%	100%	Cw9	100%	100%			
B48	83%	100%	Cw10	25%	100%	B37	96%	100%			
B54	83%	100%	B703	21%	100%	B78	96%	100%			
B55	83%	75%	B8101	21%	100%	A66	92%	67%			
B41	83%	33%	A24	17%	100%	B39	88%	100%			

Table 25. Summary of the 574th Serum Exchange (Serum #1289-1292) by Single Antigen - class I, cont.

Method: Luminex - SAB											
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***		
24 typing Labs			24 typing Labs			24 typing Labs			24 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A33	79%	100%	A80	17%	100%	A68	75%	100%			
A74	79%	100%	Cw12	17%	100%	A34	75%	83%			
B39	79%	100%	A1	12%	100%	A11	71%	100%			
B56	79%	100%	A11	12%	100%	A23	67%	100%			
B64	79%	67%	A36	12%	100%	A24	67%	100%			
A32	75%	67%	B3901	12%	100%	A33	67%	100%			
B2708	58%	100%	B40	12%	100%	A69	67%	100%			
B78	54%	100%				B41	67%	100%			
B27	46%	67%				A26	58%	100%			
B82	38%	100%				Cw15	58%	100%			
A69	33%	100%				B13	58%	67%			
B65	33%	100%				Cw18	54%	100%			
A6601	25%	100%				A2	42%	100%			
B3901	25%	100%				Cw2	42%	100%			
A1101	21%	100%				B48	38%	100%			
A1102	21%	100%				B55	38%	100%			
A1C	17%	100%				B67	38%	100%			
A6602	17%	100%				Cw17	38%	100%			
B703	17%	100%				B27	29%	100%			
Bw6	17%	100%				B3901	29%	100%			
B8101	12%	100%				B44	29%	100%			
						Cw4	21%	100%			
						Cw5	21%	100%			
						A6601	17%	100%			
						B5C	17%	100%			
						B7801	17%	100%			
						Bw4	17%	100%			
						Cw6	17%	100%			
						A1102	12%	100%			
						A2403	12%	100%			
						B14	12%	100%			
						B15	12%	100%			
						B47	12%	100%			

Table 26. Summary of the 574th Serum Exchange (Serum #1289-1292) by NIH-Extended and Flow Cytometry - class II

Method: NIH-Extended											
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***		
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 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***		
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 574th Serum Exchange (Serum #1289-1292) by PRA and C1q - class II

Method: Luminex - PRA											
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***		
4 typing Labs			4 typing Labs			4 typing Labs			4 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR4	75%	100%	DQ5	75%	100%	DR1	75%	100%	DQ7	75%	100%
DR53	50%	100%	DQ6	75%	100%	DR103	75%	100%	DQ8	75%	100%
DR18	25%	100%	DR15	75%	100%	DR11	75%	100%	DQ9	75%	100%
DR3	25%	100%	DR16	75%	100%	DR12	75%	100%	DR7	75%	100%
DR52	25%	100%	DPw3	50%	100%	DR13	75%	100%	DR9	75%	100%
DR9	25%	100%	DPw6	50%	100%	DR14	75%	100%	DP11	50%	100%
			DQA1*01	50%	100%	DR15	75%	100%	DP19	50%	100%
			DP14	25%	100%	DR16	75%	100%	DP9	50%	100%
			DP17	25%	100%	DR4	75%	100%	DPw5	50%	100%
			DP9	25%	100%	DR8	75%	100%	DQ4	50%	100%
			DQ4	25%	100%	DR1403	50%	100%	DP13	25%	100%
					DR1404	50%	100%	DP14	25%	100%	
					DR17	50%	100%	DP15	25%	100%	
					DR18	50%	100%	DP17	25%	100%	
					DR9	50%	100%	DP28	25%	100%	
					DR3	25%	100%	DPA1*02	25%	100%	
					DR52	25%	100%	DPw1	25%	100%	
								DQA1*02	25%	100%	
								DQA1*03	25%	100%	
								DQA1*04	25%	100%	
								DQA1*06	25%	100%	

Method: C1q											
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NT			NT			NT					
									no consensus		

Table 28. Summary of the 574th Serum Exchange (Serum #1289-1292) by Single Antigen - class II

Method: Luminex - SAB											
*** Serum 1289 ***			*** Serum 1290 ***			*** Serum 1291 ***			*** Serum 1292 ***		
22 typing Labs			22 typing Labs			22 typing Labs			22 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR4	100%	100%	DR15	100%	100%	DR1	100%	100%	DQ7	100%	100%
DR53	100%	41%	DQ6	100%	92%	DR11	100%	100%	DQ8	100%	100%
DR52	36%	33%	DR16	100%	83%	DR12	100%	100%	DQ9	100%	100%
DR9	23%	100%	DQ5	100%	75%	DR13	100%	100%	DR7	100%	100%
DR18	18%	100%	DPw3	86%	100%	DR14	100%	100%	DR9	100%	100%
DR7	18%	100%	DPw6	86%	100%	DR15	100%	100%	DPw5	100%	78%
DR8	9%	100%	DQ4	86%	100%	DR16	100%	100%	DPw1	91%	100%
			DP17	82%	100%	DR17	100%	100%	DP11	86%	100%
			DP9	82%	100%	DR18	100%	100%	DP13	86%	100%
			DP14	77%	100%	DR4	100%	100%	DQ4	86%	100%
			DR51	77%	100%	DR52	100%	100%	DP19	82%	100%
			DP20	64%	100%	DR8	100%	100%	DP14	73%	100%
			DQA1*01	36%	100%	DR103	95%	100%	DP9	73%	100%
			DP10	27%	100%	DR9	95%	86%	DP17	68%	100%
			DP11	14%	100%	DR51	77%	100%	DQA1*02	59%	100%
			DP19	14%	100%	DR10	73%	100%	DQ2	55%	60%
			DPA1*03	14%	100%	DR1403	23%	100%	DPw4	55%	50%
			DPw5	14%	100%	DR1404	23%	100%	DPw6	55%	50%
			DQA1*03	14%	100%	DR3	4%	100%	DPw3	50%	33%
			DPw1	14%	50%				DP10	45%	100%
			DP13	14%	33%				DPA1*02	41%	100%
									DP18	32%	33%
									DQA1*03	27%	100%
									DQA1*05	27%	100%
									DQA1*06	27%	100%
									DP15	23%	100%
									DQA1*04	23%	100%
									DP20	18%	100%
									DP28	14%	100%
									DPA1*03	14%	100%
									DPA1*04	14%	100%
									DQ3	14%	100%

Table 29. Individual laboratory results for Serum #1289 - #1292 by NIH-Standard and NIH-Extended

		**** Serum 1289 ****			**** Serum 1290 ****			**** Serum 1291 ****						**** Serum 1292 ****			
Ctr	% POS		Other	% POS	B7	Other	% POS	B35					Other	% POS		Other	Method
786					+			+									STD

STD = NIH-Standard

		**** Serum 1289 ****			**** Serum 1290 ****			**** Serum 1291 ****						**** Serum 1292 ****					
Ctr	% POS		Other	% POS	B7	B81	Other	% POS	B35	B49	B51	B52	B53	B75	Other	% POS	A29	Other	Method
3753	0			16	+	+		34	+	+	+	+	+	+		5	+		EXT

EXT = NIH-Extended

Table 30. Individual laboratory results for Serum #1289 - #1292 by Antiglobulin and Flow Cytometry

**** Serum 1289 ****							**** Serum 1290 ****					**** Serum 1291 ****					**** Serum 1292 ****								
Ctr	% POS	A11	A26	A66	A1	Other	% POS	B7	B27	B42	B47	Other	% POS	B53	B35	B49	B50	Other	% POS	A26	A31	A30	A74	Other	Method
774	45	+	+	+	+	A25,A34,A3	46	+	+	+	+	B60,B61,B48,B54 >	60	+	+	+	+	B70,B62,B51,B52 >	15	+	+	+	+		Antiglobulin
786		+						+						+	+										Antiglobulin

**** Serum 1289 ****							**** Serum 1290 ****					**** Serum 1291 ****					**** Serum 1292 ****								
Ctr	% POS					Other	% POS					Other	% POS					Other	% POS					Other	Method
5214	98						77						97						87						FC

FC = Flow Cytometry

Table 31. Individual laboratory results for Serum #1289 - #1292 by Luminex-PRA

**** Serum 1289 ****																																			
Ctr	% POS	A25	A26	A29	A3	B7	A1	A1101	A1102	A30	A31	A32	A33	A34	A36	A43	A6601	A74	A80	B18	B2708	B35	B45	B48	B61	B62	B67	B71	B72	B75	B76	B8101	Other	Method	
731	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B50,B82,B703 >	Luminex-PRA	
2400	96																																		Luminex-PRA
3753	94	+	+	+	+	+				+	+	+	+					+															A11,A66,B81	Luminex-PRA	
8043	39	+	+	+	+	+	+	+	+					+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B39	Luminex-PRA	

**** Serum 1290 ****																																			
Ctr	% POS	A3	B13	B27	B42	B48	B54	B55	B56	B60	B61	B67	B7	B73	B82	B2708	B47	B57	B703	B8101	Cw1	Cw14											Other	Method	
731	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												B64,B63,B58,Cw2 >	Luminex-PRA
2400	77																																		Luminex-PRA
3753	70	+	+	+	+	+	+	+	+	+	+	+	+	+	+																			B81	Luminex-PRA
8043	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												A66	Luminex-PRA

**** Serum 1291 ****																																			
Ctr	% POS	B35	B49	B50	B51	B52	B53	B57	B62	B63	B72	B75	B77	A25	A29	A32	A43	B18	B37	B38	B46	B54	B56	B58	B59	B64	B65	B71	B76	B78	B8	Other	Method		
731	45	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A34,A33,A68,A69 >	Luminex-PRA	
2400	98																																		Luminex-PRA
3753	92	+	+	+	+	+	+	+	+	+	+	+	+	+																					Luminex-PRA
8043	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A66,Cw10,Cw9,B3901	Luminex-PRA

**** Serum 1292 ****																																			
Ctr	% POS	A1	A26	A29	A30	A31	A33	A34	A3	A36	A43	A66	A74	A80	B7																		Other	Method	
731	24	+	+	+	+	+	+	+	+	+	+																							B82,B55,B42,B8101 >	Luminex-PRA
2400	86																																		Luminex-PRA
3753	86	+	+	+	+	+	+	+				+																						A11	Luminex-PRA

Table 32. Individual laboratory results for Serum #1289 - #1292 by C1q

Ctr	**** Serum 1289 ****						**** Serum 1290 ****							**** Serum 1291 ****														**** Serum 1292 ****				Method										
	% POS	A11	A1101	A1102	A43	Other	% POS	B27	B42	B67	B7	B73	B2708	Other	% POS	B18	B35	B46	B49	B50	B51	B52	B53	B56	B57	B58	B62	B63	B71	B72	B75		B77	Other	% POS	A29	A43	Other				
786			+	+	+			+	+	+	+	+	+	B8101		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B54,A29,B37,B59		+	+		C1q
2400		+						+	+	+	+	+		B81		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,Cw10,Cw9		+	+		C1q

Table 33. Individual laboratory results for Serum #1289 by Luminex-SAB - class I

		**** Serum 1289 ****																																			
Ctr	% POS	A25	A26	A43	A36	B35	B60	B76	A3	B7	B75	A11	A30	A34	B62	B67	B71	B72	A29	B18	B45	A1	A31	A66	B42	B61	B8	B81	A80	B50	A68	B48	B54	B55	B41		
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
774	79	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
1647		+	+	+								+													+												
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
3632	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
3753	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
3808	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
3966	52	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
5219	19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
6649	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8045	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8103	7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Table 33. Individual laboratory results for Serum #1289 by Luminex-SAB - class I, cont.

**** Serum 1289 ****												
Ctr	A33	A74	B39	B56	B64	A32	B2708	B78	B27	Other	Method	
615	+	+	+	+	+	+	+	+	+	A24,B49,B47,B44,A*24:03 >	Luminex-SAB	
725	+		+	+	+					B82	Luminex-SAB	
774		+	+	+	+	+			+	A6601	Luminex-SAB	
786	+	+		+	+		+	+		A69,B65,A1101,A1102 >	Luminex-SAB	
910	+	+	+	+	+	+		+	+	A69	Luminex-SAB	
1647											Luminex-SAB	
2400	+	+	+	+	+	+		+	+	B65	Luminex-SAB	
3632	+	+	+	+	+	+	+	+		A69,Bw6	Luminex-SAB	
3753	+	+	+	+	+	+	+	+		A69,Bw6	Luminex-SAB	
3766	+	+	+	+	+	+	+	+	+	B8101,B7801,A1101,A1102 >	Luminex-SAB	
3808	+	+		+	+	+	+			B82,B703,B8101,B7801 >	Luminex-SAB	
3966	+	+	+	+	+	+			+	B82,B65	Luminex-SAB	
4322	+	+	+	+	+	+	+	+		B49,B82,A69,B65 >	Luminex-SAB	
5214	+	+	+	+	+	+	+	+		B82,A69,B65	Luminex-SAB	
5219			+				+			B40,B15,B70,A10 >	Luminex-SAB	
6649	+	+	+	+	+	+			+	B82	Luminex-SAB	
8045						+	+			B70,A10,B82,B703 >	Luminex-SAB	
8082	+	+	+	+	+	+	+	+		A69,B65	Luminex-SAB	
8086	+	+	+								Luminex-SAB	
8090	+	+	+	+	+	+		+	+	B*27:08	Luminex-SAB	
8098	+	+		+	+	+	+	+		B82,B703,B65,Bw4 >	Luminex-SAB	
8100	+	+	+	+	+	+			+	A1C	Luminex-SAB	
8103			+				+		+	B40,B15,A1101,A1102 >	Luminex-SAB	
8112	+	+	+	+	+	+			+		Luminex-SAB	

Table 34. Individual laboratory results for Serum #1290 by Luminex-SAB - class I

		**** Serum 1290 ****																																				
Ctr	% POS	B27	B42	B47	B54	B55	B56	B60	B61	B67	B7	B73	Cw1	A3	B13	B48	B57	B82	Cw14	B81	B63	Cw2	B64	B58	B39	Cw9	A66	A6602	B46	Cw15	B2708	Cw10	Other	Method				
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A1,A23 >	Luminex-SAB				
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
774	61	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A80,B8101,B8201 >	Luminex-SAB			
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
3632	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
3753	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B8201,B3901	Luminex-SAB		
3808	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,B8101	Luminex-SAB			
3966	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A1,A23 >	Luminex-SAB		
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
5219	21	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,A10,B703 >	Luminex-SAB		
6649	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
8045	25	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B703,B22	Luminex-SAB		
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A1,A36 >	Luminex-SAB		
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw12	Luminex-SAB			
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A*66:02	Luminex-SAB		
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,Bw4,Bw6,B12C >	Luminex-SAB		
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw12	Luminex-SAB		
8103	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B703,B8101	Luminex-SAB		
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw12	Luminex-SAB		

Table 35. Individual laboratory results for Serum #1291 by Luminex-SAB - class I

		**** Serum 1291 ****																																																							
Ctr	% POS	A25	A29	A32	A43	B18	B35	B38	B46	B49	B50	B51	B52	B53	B54	B56	B57	B58	B59	B62	B63	B64	B65	B71	B72	B75	B76	B77	B8	Cw10	Cw9	B37	B78	A66	B39	A68	A34	A11	A23	A24	A33	A69	B41	A26	Cw15	B13	Cw18										
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
774	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
3632	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
3753	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
3808	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
3966	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
5219	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
6649	47	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
8045	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8103	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Table 35. Individual laboratory results for Serum #1291 by Luminex-SAB - class I, cont.

**** Serum 1291 ****												
Ctr	A2	Cw2	B48	B55	B67	Cw17	B27	B3901	B44	Other	Method	
615	+	+	+	+	+	+	+		+	Cw4,Cw6,B47,B42,B*27:05 >	Luminex-SAB	
725											Luminex-SAB	
774											Luminex-SAB	
786	+	+	+	+	+	+	+	+	+	Cw4,A203,B42,Cw5 >	Luminex-SAB	
910	+		+	+	+		+			A*34:02,B*13:02,B*27:05	Luminex-SAB	
1647											Luminex-SAB	
2400	+	+	+	+	+	+					Luminex-SAB	
3632	+				+					A1102	Luminex-SAB	
3753		+				+			+	A*34:02	Luminex-SAB	
3766	+	+	+	+		+		+		A2403,B7801,A1101,A1102 >	Luminex-SAB	
3808								+		B7801	Luminex-SAB	
3966	+		+	+	+						Luminex-SAB	
4322	+	+	+	+	+	+	+		+	Cw4,Cw6,B47,Cw5	Luminex-SAB	
5214	+	+	+	+	+	+			+	Cw4,Cw6,Bw4,Cw5	Luminex-SAB	
5219								+		B15,B70,A10,B21 >	Luminex-SAB	
6649											Luminex-SAB	
8045								+		B15,B70,B21,B5 >	Luminex-SAB	
8082		+	+	+	+	+	+		+	Cw4,Cw6,B47,Bw4 >	Luminex-SAB	
8086											Luminex-SAB	
8090		+				+	+		+	A*33:03,A*34:02,A*66:01.B*13:02,B*27:05,B*44:03	Luminex-SAB	
8098									+	Bw4,Bw6,A2403,B12C >	Luminex-SAB	
8100	+	+								B5C,A10C	Luminex-SAB	
8103								+		B15,B14,Cw3,B7801 >	Luminex-SAB	
8112							+				Luminex-SAB	

Table 36. Individual laboratory results for Serum #1292 by Luminex-SAB - class I

		**** Serum 1292 ****																								
Ctr	% POS	A1	A26	A29	A30	A31	A33	A34	A36	A43	A74	A80	A66	B7	A3	A11	B42	B81	B67	B55	B56	B82	A6601	A6602	Other	Method
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B48,B27,B54	Luminex-SAB
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
774	68	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+						A1102	Luminex-SAB
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B8101,B2708,A1101 >	Luminex-SAB
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
1647		+	+	+	+	+	+	+	+	+	+	+	+	+												Luminex-SAB
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					Luminex-SAB
3632	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
3753	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex-SAB
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,A1101,A1102,B8201	Luminex-SAB
3808	16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex-SAB
3966	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B60,B48,B27,B54	Luminex-SAB
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
5219	16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A10,A19,A1C,A10C	Luminex-SAB
6649	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
8045	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			A1C	Luminex-SAB
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B48	Luminex-SAB
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Bw6,B7C,A1C,A10C	Luminex-SAB
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			A1C,A10C	Luminex-SAB
8103	12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex-SAB
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB

Table 37. Individual laboratory results for Serum #1289 - 1292 by NIH-Extended and Flow Cytometry - class II

		**** Serum 1289 ****				**** Serum 1290 ****				**** Serum 1291 ****				**** Serum 1292 ****				
Ctr	% POS			Other	% POS			Other	% POS			Other	% POS			Other	Method	
3753	0				15				53				28				EXT	

		**** Serum 1289 ****				**** Serum 1290 ****				**** Serum 1291 ****				**** Serum 1292 ****				
Ctr	% POS			Other	% POS			Other	% POS			Other	% POS			Other	Method	
5214	54				82				98				91				FC	

Table 38. Individual laboratory results for Serum #1289 - 1292 by Luminex-PRA and C1q - class II

**** Serum 1289 ****														**** Serum 1290 ****													
Ctr	% POS	DR4	DR53	DR18										Other	% POS	DQ5	DQ6	DR15	DR16	DPw3	DPw6	DQA1*01			Other	Method	
731	10	+												DR3,DR9	21	+	+	+	+	+	+	+				DP9,DP17,DP14	Luminex-PRA
2400	31														83												Luminex-PRA
3753	43	+	+												70	+	+	+	+						DQ4	Luminex-PRA	
8043	9	+	+	+										DR52	15	+	+	+	+	+	+	+					Luminex-PRA

**** Serum 1291 ****														**** Serum 1292 ****																	
Ctr	% POS	DR1	DR103	DR11	DR12	DR13	DR14	DR15	DR16	DR4	DR8	DR1403	DR1404	DR17	DR18	DR9	Other	% POS	DQ7	DQ8	DQ9	DR7	DR9	DP11	DP19	DP9	DPw5	DQ4	Other	Method	
731	34	+	+	+	+	+	+	+	+	+	+	+	+				DR3	42	+	+	+	+	+	+	+	+	+	+		DPw1,DP13,DP15,DP17 >	Luminex-PRA
2400	100																	80													Luminex-PRA
3753	97	+	+	+	+	+	+	+	+	+	+			+	+	+		67	+	+	+	+	+					+		Luminex-PRA	
8043	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DR52	27	+	+	+	+	+	+	+	+	+		DQA1*02	Luminex-PRA	

**** Serum 1289 ****														**** Serum 1290 ****														
Ctr	% POS													Other	% POS											Other	Method	
2400																												C1q

**** Serum 1291 ****														**** Serum 1292 ****														
Ctr	% POS													Other	% POS	DQ7	DQ8	DQ9	DR7							Other	Method	
2400																+	+	+	+									C1q

Table 39. Individual laboratory results for Serum #1289 - 1290 by Luminex - class II

**** Serum 1289 ****							**** Serum 1290 ****														Method			
Ctr	% POS	DR4	DR53	DR52	DR9	Other	% POS	DR15	DQ6	DR16	DQ5	DPw3	DPw6	DQ4	DP17	DP9	DP14	DR51	DP20	DQA1*01		DP10	Other	
615		+	+					+	+	+	+	+	+	+	+	+	+	+	+	+		+	DR7,DPw1,DPw2,DPw5 >	Luminex-SAB
774	26	+	+				47	+	+	+	+													Luminex-SAB
910		+	+					+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
1647		+	+					+	+	+	+													Luminex-SAB
2400		+	+					+	+	+	+	+	+	+	+	+	+	+	+	+			DR9	Luminex-SAB
3632	48	+	+				58	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
3753		+	+					+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
3766		+	+					+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
3808	6	+	+				17	+	+	+	+	+	+	+	+	+	+				+			Luminex-SAB
3966	8	+	+	+			29	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DPA1*01,DPA1*02,DPA1*03,DQA1*02 >	Luminex-SAB
4322		+	+	+	+	DR8		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPw1,DPw2,DPw5,DP11 >	Luminex-SAB
5214		+	+					+	+	+	+	+	+	+	+	+	+	+	+	+		+		Luminex-SAB
5219	6	+	+				16	+	+	+	+	+	+	+	+	+	+				+		DR2,DQ1	Luminex-SAB
6649	11	+	+	+	+	DR7,DR18	29	+	+	+	+	+	+	+	+	+	+	+	+		+			Luminex-SAB
8045	10	+	+	+	+	DR7,DR18	29	+	+	+	+	+	+	+	+	+	+	+	+				DR2,DQ1,DPw5	Luminex-SAB
8082		+	+	+	+	DR7,DR8,DR18		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP11,DP19,DPA1*03,DQA1*03	Luminex-SAB
8086	200	+	+	+			200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1,DR103,DR4,DR7 >	Luminex-SAB
8090		+	+	+		DRB3*01:01		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex-SAB
8098		+	+	+	+	DR7,DR18		+	+	+	+	+	+	+						+	+			Luminex-SAB
8100		+	+					+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
8103	6	+	+				9	+	+	+	+										+			Luminex-SAB
8112		+	+					+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB

Table 40. Individual laboratory results for Serum #1291 by Luminex - class II

		**** Serum 1291 ****																			
Ctr	% POS	DR1	DR11	DR12	DR13	DR14	DR15	DR16	DR17	DR18	DR4	DR52	DR8	DR103	DR9	DR51	DR10	DR1403	DR1404	Other	Method
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
774	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+						Luminex-SAB
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+						Luminex-SAB
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
3632	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
3808	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		Luminex-SAB
3966	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DQ4,DQ8,DQ6,DQA1*01 >	Luminex-SAB
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
5219	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR2,DR3,DR5,DR6	Luminex-SAB
6649	35	+	+	+	+	+	+	+	+	+	+	+	+		+		+				Luminex-SAB
8045	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	DR3,DR5,DR6	Luminex-SAB
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
8098		+	+	+	+	+	+	+	+	+	+	+	+	+				+	+		Luminex-SAB
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB
8103	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR3	Luminex-SAB
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex-SAB

Table 41. Individual laboratory results for Serum #1292 by Luminex - class II

		**** Serum 1292 ****																													
Ctr	% POS	DQ7	DQ8	DQ9	DR7	DR9	DPw5	DPw1	DP11	DP13	DQ4	DP19	DP14	DP9	DP17	DQA1*02	DQ2	DPw4	DPw6	DPw3	DP10	DPA1*02	DP18	DQA1*03	DQA1*05	DQA1*06	DP15	DQA1*04	Other	Method	
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							DP401,DP20,DP23	Luminex-SAB
774	63	+	+	+	+	+	+																								Luminex-SAB
910		+	+	+	+	+	+	+	+	+	+	+				+							+			+				DQA1*02:01,DQA1*05:01,DPA1*02:01,DPA1*02:02	Luminex-SAB
1647		+	+	+	+	+	+																								Luminex-SAB
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+			+	+	+		+							Luminex-SAB
3632	61	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+		+							Luminex-SAB
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+														Luminex-SAB
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+					Luminex-SAB
3808	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+		+		+	+	+	DP28,DPA1*04	Luminex-SAB
3966	41	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+		+	+	+			DPA1*01,DPA1*03	Luminex-SAB
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP20,DP23,DPA1*01,DPA1*03	Luminex-SAB
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP401	Luminex-SAB
5219	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+			+	DQ3	Luminex-SAB	
6649	46	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+				+		DP28	Luminex-SAB	
8045	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	DQ3,DQ6,DP28,DPA1*04	Luminex-SAB	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		DP20,DPA1*03	Luminex-SAB	
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						Luminex-SAB	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						DP20,DPB1*04:01,DQA1*02:01,DQA1*05:01	Luminex-SAB	
8098		+	+	+	+	+	+			+						+	+	+	+	+	+	+	+	+	+	+	+	+	DQ6,DPA1*04	Luminex-SAB	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						Luminex-SAB	
8103	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												DQ3	Luminex-SAB	
8112		+	+	+	+	+	+	+	+	+	+	+						+												Luminex-SAB	