

# REPORT OF THE 418<sup>th</sup> CELL EXCHANGE

## OCTOBER 7, 2020

B-cell Lines	577-578
Cells	1669-1672
Sera	1297-1300

### B-cell Line Exchange #289

The results for B-cell Line Exchange #289 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We are grateful to the generosity of **Welsh Blood Service, Pontyclun** for sharing the interesting 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/>.

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**Ter-577.** The consensus type for this cell from a Caucasian donor is DRB1\*07:01-DRB1\*12:01-DRB3\*02:02-DRB4\*01:03:01:02N-DQA1\*02:01-DQA1\*05:05-DQB1\*03:01-DQB1\*03:03-DPA1\*01:03-DPB1\*04:01-DPB1\*20:01/A\*26:01-A\*32:01-B\*07:02-B\*27:23-C\*02:02-C\*07:02. Based on B\*27:23 family studies examined by Darke et al. (1) and data collected from this study, the haplotypes present in this cell are most likely A\*26:01-B\*27:23-C\*02:02-DRB1\*12:01-DRB3\*02:02-DQA1\*05:05-DQB1\*03:01 and A\*32:01-B\*07:02-C\*07:02-DRB1\*07:01-DRB4\*01:03:01:02N-DQA1\*02:01-DQB1\*03:03.

This cell was previously examined in the Class I DNA Extract Exchange as Ext 394 (2007) and Ext 569 (2013). In this present retyping, B\*27:23 was reported in complete consensus by labs reporting at high resolution. Good agreement ( $\geq 90\%$ ) was also achieved for all other loci in this sample.

**Ter-578.** The consensus type for this cell from a Caucasian donor is DRB1\*01:01-DRB1\*07:01-DRB4\*01:01-DQA1\*01:01-DQA1\*02:01-DQB1\*02:02-DQB1\*05:01-DPA1\*01:03-DPA1\*02:01-DPB1\*04:02-DPB1\*11:01/A\*24:21-A\*31:01-B\*07:02-B\*49:01-C\*07:01-C\*07:02. One likely association present in this cell is B\*07:02-C\*07:02-DRB1\*01:01-DQB1\*05:01, commonly observed in Caucasians, with HF = 0.00979. The other likely association present is then B\*49:01-C\*07:01-DRB1\*07:01-DQB1\*02:02.

This cell is 37057, one of the reference cells for A\*24:21:01. It was previously examined in the Class I DNA Extract Exchange as Ext 402 (2007). In this present retyping, A\*24:21 was assigned by 100% of labs, with 8 assigning A\*24:21:01. Good concordance ( $\geq 90\%$ ) was achieved for all loci as well. DPA1 low resolution results were not graded for this sample as there were < 10 labs reporting.

#### Reference:

1. Darke C, Street J, Hammond L, et al. Immunogenetic study of a new HLA allele, B\*2723. Tissue Antigens 2002;60:400-403.



**Table 2: Summary of the 289<sup>th</sup> B-cell Line Exchange**

**Ter-578**

DNA Typing - class II		DNA Typing - class II		DNA Typing - class II		DNA Typing - class II		DNA Typing - class II		DNA Typing - class II	
<b>28 labs High; 24 labs low-DRB1</b>		<b>18 labs High; 17 labs Low-DRB3/4/5</b>		<b>21 labs High; 21 labs Low-DQA1</b>		<b>27 Labs High; 22 labs Low-DQB1</b>		<b>15 labs High; 9 labs Low-DPA1</b>		<b>25 labs High; 13 labs Low-DPB1</b>	
DRB1*01:01:01	28(8)	DRB4*01:01:01	22(4)	DQA1*01:01:01	19(4)	DQB1*02:02:01	18(5)	DPA1*01:03:01	27(4)	DPB1*04:02:01	28(7)
DRB1*01:01:01G	11(3)	DRB4*01:01:01	78(14)	DQA1*01:01:01	81(17)	DQB1*02:01:01G	4 (1)	DPA1*01:03:01G	13(2)	DPB1*04:02:01G	8 (2)
DRB1*01:01P	4 (1)	DRB4*01	76(13)	DQA1*01	100(21)	DQB1*02:02	78(21)	DPA1*01:03	60(9)	DPB1*04:02	60(15)
DRB1*01:01	57(16)	DRB4*PRESENT	24(4)			DQB1*02	100(22)	DPA1*01	100(9)	DPB1*04:01	4 (1)
DRB1*01	100(24)									DPB1*04(DP402)	46(6)
										DPB1*04	54(7)
<b>28 labs High; 24 labs low-DRB1</b>	%(n)			<b>21 labs High; 21 labs Low-DQA1</b>	%(n)	<b>27 Labs High; 22 labs Low-DQB1</b>	%(n)	<b>15 labs High; 9 labs Low-DPA1</b>	%(n)	<b>25 labs High; 13 labs Low-DPB1</b>	%(n)
DRB1*07:01:01	28(8)			DQA1*02:01:01	19(4)	DQB1*05:01:01	22(6)	DPA1*02:01:01	27(4)	DPB1*11:01:01	32(8)
DRB1*07:01:01G	11(3)			DQA1*02:01	81(17)	DQB1*05:01:01G	7 (2)	DPA1*02:01:01G	13(2)	DPB1*11:01G	4 (1)
DRB1*07:01	61(17)			DQA1*02	100(21)	DQB1*05:01	70(19)	DPA1*02:01	60(9)	DPB1*11:01	64(16)
DRB1*07	100(24)					DQB1*05	100(22)	DPA1*02	100(9)	DPB1*11	100(13)

  

DNA Typing - class I		DNA Typing - class I		DNA Typing - class I	
<b>22 labs High; 21 labs low- A</b>		<b>22 labs High; 21 labs low- B</b>		<b>22 labs High; 21 labs low- C</b>	
A*24:21:01	36(8)	B*07:02:01:01	4 (1)	C*07:01:01:16	4 (1)
A*24:21	64(14)	B*07:02:01	27(6)	C*07:01:01	27(6)
A*24	100(21)	B*07:02:01G	4 (1)	C*07:01:01G	9 (2)
		B*07:02	64(14)	C*07:01	59(13)
		B*07	100(21)	C*07	100(21)
<b>22 labs High; 21 labs low- A</b>	%(n)	<b>22 labs High; 19 labs low- B</b>	%(n)	<b>22 labs High- C</b>	%(n)
A*31:01:02:01	9 (2)	B*49:01:01:01	4 (1)	C*07:02:01:03	4 (1)
A*31:01:02	23(5)	B*49:01:01	27(6)	C*07:02:01	27(6)
A*31:01:02G	4 (1)	B*49:01:01G	4 (1)	C*07:02:01G	4 (1)
A*31:01	64(14)	B*49:01	64(14)	C*07:02	64(14)
A*31	100(21)	B*49	100(21)		

**Table 3a: Individual laboratory results for B-cell #577 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*07	*12	3*02	4*01	*02	*05	*03	*03	*01	*01	*04	*20	SSP SSO	
725	*07	*12	3*PRESENT	4*PRESENT	*02	*05	*03	*03					SSP SSO	
731	*07	*12	3*02	4*01	*02	*05	*03	*03	*01	*01	*04	*20	SSO SBT RT-PCR	
747	*07	*12	3*PRESENT	4*PRESENT	*02	*05	*03	*03	*01	*01	*04	*20	SSP SSO NGS	
771	*07	*12			*02	*05	*03	*03					SSO NGS	
774	*07	*12	3*02	4*01N	*02	*05	*03	*03			*04(DP401)	*20	SSP SSO	
792	*07	*12	3*02	4*01N	*02	*05	*03	*03	*01	*01	*04	*20	SSP SSO NGS	
793	*07	*12	3*02	4*01N	*02	*05	*03	*03			*04(DP401)	*20	SSP SSP SSO NGS	
794	*07	*12	3*02	4*01N	*02	*05	*03		*01		*04	*20	RT-PCR	
2400	*07	*12	3*02	4*01N	*02	*05	*03				*04	*20	SSO NGS	
2847	*07	*12											SSO SSP NGS	
3519	*07	*12			*02	*05	*03		*01		*04(DP401)	*20	RT-PCR	
3753	*07	*12	3*02	4*01N	*02	*05	*03	*03	*01	*01	*04(DP401)	*20	SSO	
3966													SSP	
4079	*07	*12	3*02	4*01N	*02	*05	*03	*03	*01		*04(DP401)	*20	SSO	
5130	*07	*12	3*02	4*01	*02	*05	*03	*03			*04	*20	SSO NGS	
5214	*07	*12	3*02	4*01N	*02	*05	*03(DQ7)	*03(DQ9)	*01		*04(DP401)	*20	SSO	
5219	*07	*12			*02	*05	*03	*03					SSO NGS	
5451	*07	*12	3*02	4*01N	*02	*05	*03	*03					SSO SBT	
5462	*07	*12	3*02	4*01N	*02	*05	*03	*03	*01		NT	NT	RT-PCR	
5488													SSP SSO NGS	
5642	*07	*12	3*PRESENT	4*PRESENT			*03	*03					SSP	
6649	*07	*12											SSO	
8029	*07	*12			*02	*05	*03	*03					SSO	
8043	*07	*12			*02	*05	*03	*03					SSP SSO	
8068	*07	*12			*02	*05	*03						SSO	

**Table 3b: Individual laboratory results for B-cell #577 - Class II**

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*07:01	*12:01	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01	*20:01	SSO NGS	
278	*07:01	*12:01	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01	*20:01	SSP SSO	
731	*07:01:01G	*12:01:01G					*03:01:01G	*03:03:02G			*04:01:01G	*20:01:01G	SSO SBT RT-PCR	
747	*07:01:01	*12:01:01	3*02:02:01	4*01:03:01:02N	*02:01:01	*05:05:01	*03:01	*03:03:02	*01:03:01	*01:03:01	*04:01:01	*20:01:01	SSP SSO NGS	DRB1*12:10 DPB1*905:01 DPB1*350:01
762	*07:01	*12:01	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03		*04:01	*20:01	NGS	DPB1*350:01 DPB1*905:01
771	*07:01	*12:01					*03:01	*03:03					SSO NGS	
774	*07:01	*12:01	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03			*04:01	*20:01	SSP SSO	DRB1*07:31 DRB1*07:33 DRB1*12:25 DRB1*12:28 DRB1*12:29 DRB1*12:34 DRB1*12:36 DQB1*03:73 DQB1*03:92 DQB1*03:93 DQB1*03:136
792	*07:01	*12:01	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01	*20:01	SSP SSO NGS	DPB1*350:01
793					*02:01	*05:05					*04:01	*20:01	SSP	
794	*07:01	*12:01	3*02:02:01	4*01:03:01N	*02:01	*05:05	*03:01	*03:03:02	NT	NT	*04:01:01	*20:01:01	SSP SSO NGS RT-PCR	DRB1*07:79 DRB1*12:10
2344	*07:01:01	*12:01:01	NT	NT	NT	NT	*03:01:01	*03:03:02	NT	NT	*04:01:01	*20:01:01	NGS	DRB1*12:10 DPB1*350:01 DPB1*905:01
2400	*07:01	*12:01	3*02:02	4*01:03:01N	*02:01	*05:05	*03:01	*03:03			*04:01	*20:01	SSO NGS	DRB1*12:10 DPB1*350:01 DPB1*905:01
3135	*07:01P	*12:01P	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01	*20:01		DQA1*05:09
3224	*07:01	*12:01	3*02:02	4*01:03:01N	*02:01	*05:05	*03:01	*03:03	*01:03		*04:01	*20:01	NGS	
3511	*07:01	*12:01	3*02:02	4*01:03:01N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01	*20:01	SSP SSO SSP NGS	
3519	*07:01	*12:01P	3*02:02	4*01:03N	*02:01	*05:05	*03:01P	*03:03	*01:03	*01:03	*04:01P	*20:01	RT-PCR	DRB1*12:10
3966	*07:01	*12:01	3*02:02	4*01:03:01:02N			*03:01	*03:03					SSP	
4251	*07:01:01G	*12:01:01G	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01:01G	*20:01:01G	NGS	
4337	*07:01	*12:01					*03:01	*03:03			*04:01	*20:01	SSP SBT NGS	
5130	*07:01	*12:01	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03			*04:01	*20:01	SSO NGS	DRB1*12:10 DPB1*350:01 DPB1*905:01
5133	*07:01:01	*12:01:01	3*02:02:01:02	4*01:03:01:02N	*02:01:01:01	*05:05:01:06	*03:01:01:05	*03:03:02:01	*01:03:01:02	*01:03:01:03	*04:01:01:05	*20:01:01	NGS	DPB1*939:01N
5214											*04:01G	*20:01G	SSO	
5219	*07:01:01	*12:01:01					*03:01:01	*03:03:02			*04:01:01	*20:01:01	SSO NGS	

**Table 3b: Individual laboratory results for B-cell #577 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5451	*07:01:01	*12:01:01											SSO SBT	
5488	*07:01:01	*12:01:01	3*02:02:01	4*01:03:01:02N	*02:01:01	*05:05:01	*03:01:01G	*03:03:02	*01:03:01		*04:01:01	*20:01:01	SSP SSO NGS	DRB1*12:10 DPB1*350:01 DPB1*905:01
5642	*07:01	*12:01					*03:01	*03:03					SSP	
8021	*07:01	*12:01	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03	*01:03		*04:01	*20:01		
8043	*07:01	*12:01			*02:01	*05:05	*03:01	*03:03					SSP SSO	
8086	*07:01	*12:01			*02:01	*05:05	*03:01	*03:03	*01:03:01G	*01:03:01G	*04:01	*20:01	SBT	
8122	*07:01:01	*12:01:01	3*02:02:01	4*01:03:01N	*02:01:01	*05:05:01	*03:01:01	*03:03:02	*01:03:01		*04:01:01	*20:01:01	NGS	DPB1*939:01 DPB1*350:01 DPB1*905:01

**Table 4: Individual laboratory results for B-cell #577 - Class I**

Table 4: Individual laboratory results for B-cell #577 - 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							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSO NGS	
278	*26	*32	*07	*27	*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSP SSO	
725	*26	*32	*07	*27	*02	*07							SSP SSO	
731	*26	*32	*07	*27	*02	*07	*26:01:01G	*32:01:01G	*07:02:01G	*27:23	*02:02:02G	*07:02:01G	SSO SBT RT-PCR	
747	*26	*32	*07	*27	*02	*07	*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	SSP SSO NGS	
771	*26	*32	*07	*27	*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSO NGS	
774	*26	*32	*07	*27	*02	*07				*27:23			SSP SSO	
792	*26	*32	*07		*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSP SSO NGS	
793	*26	*32	*07	*27	*02	*07							SSP	
794	*26	*32	*07	*27	*02	*07	*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	SSP SSO NGS RT-PCR	
2344							*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	NGS	
2400	*26	*32	*07	*27	*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSO NGS	
2847	*26	*32	*07	*27	*02	*07							SSO	
3135							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02		
3224							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	NGS	
3511							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSP SSO	
3519	*26	*32	*07	*27	*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSP NGS RT-PCR	
3753	*26	*32	*07	*27	*02	*07							SSO	
3966	*26	*32	*07	*27	*02	*07							SSP	
4079	*26	*32	*07	*27	*02	*07							SSO	
4251							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	NGS	
4337							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSP SBT NGS	
5130	*26	*32	*07	*27	*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSO NGS	
5133							*26:01:01:01	*32:01:01:01	*07:02:01:01	*27:23	*02:02:02:01	*07:02:01:03	NGS	
5214	*26	*32	*07	*27	*02	*07							SSO	
5219	*26	*32	*07	*27	*02	*07	*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	SSO NGS	
5462	*26	*32	*07	*27	*02	*07							RT-PCR	
5488							*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	SSP SSO NGS	
8021							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02		
8029	*26	*32	*07	*27	*02	*07							SSO	
8068	*26	*32	*07	*27	*02	*07							SSO	
8086							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SBT	
8122							*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	NGS	

**Table 5a: Individual laboratory results for B-cell #578 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*01	*07	4*01	NT	*01	*02	*02	*05	*01	*02	*04	*11	SSP SSO	
725	*01	*07	4*PRESENT		*01	*02	*02	*05					SSP SSO	
731	*01	*07	4*01	4*01	*01	*02	*02	*05	*01	*02	*04	*11	SSO SBT RT-PCR	
747	*01	*07	4*PRESENT		*01	*02	*02	*05	*01	*02	*04	*11	SSP SSO NGS	
771	*01	*07			*01	*02	*02	*05					SSO NGS	
774	*01	*07	4*01		*01	*02	*02	*05			*04(DP402)	*11	SSP SSO	
792	*01	*07	4*01		*01	*02	*02	*05	*01	*02	*04	*11	SSP SSO NGS	
793	*01	*07	4*PRESENT		*01	*02	*02	*05			*04(DP402)	*11	SSP	
794	*01	*07	4*01	NP	*01	*02	*02	*05	*01	*02	*04	*11	SSP SSO NGS RT-PCR	
2400	*01	*07	4*01		*01	*02	*02	*05			*04	*11	SSO NGS	
2847	*01	*07											SSO	
3519	*01	*07			*01	*02	*02	*05	*01	*02	*04(DP402)	*11	SSP NGS RT-PCR	
3753	*01	*07	4*01	NP	*01	*02	*02	*05	*01	*02	*04(DP402)	*11	SSO	
3966													SSP	
4079	*01	*07	4*01		*01	*02	*02	*05	*01	*02	*04(DP402)	*11	SSO	
5130	*01	*07	4*01		*01	*02	*02	*05			*04	*11	SSO NGS	
5214	*01	*07	4*01		*01	*02	*02	*05	*01	*02	*04(DP402)	*11	SSO	
5219	*01	*07			*01	*02	*02	*05					SSO NGS	
5451	*01	*07	4*01		*01	*02	*02	*05					SSO SBT	
5462	*01	*07	4*01	NP	*01	*02	*02	*05	NT	NT	NT	NT	RT-PCR	
5488			4*01										SSP SSO NGS	
5642	*01	*07	4*PRESENT				*02	*05					SSP	
6649	*01	*07											SSO	
8029	*01	*07			*01	*02	*02	*05					SSO	
8043	*01	*07			*01	*02	*02	*05					SSP SSO	
8068	*01	*07			*01	*02	*02	*05					SSO	



**Table 5b: Individual laboratory results for B-cell #578 - Class II**

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	SSO NGS	
278	*01:01	*07:01	4*01:01	NT	*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:01	*11:01	SSP SSO	
731	*01:01:01G	*07:01:01G					*02:02	*05:01:01G			*04:02:01G	*11:01:01	SSO SBT RT-PCR	
747	*01:01:01	*07:01:01	4*01:01:01		*01:01:01	*02:01:01	*02:02	*05:01:01	*01:03:01	*02:01:01	*04:02:01	*11:01:01	SSP SSO NGS	DQB1*05:01:33 DQB1*02:156 DQB1*02:163N
762	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	NGS	
771	*01:01	*07:01					*02:02	*05:01					SSO NGS	
774	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01			*04:02	*11:01	SSP SSO	DRB1*01:41 DRB1*01:45 DRB1*01:47 DRB1*01:50 DRB1*01:52N DRB1*01:53 DRB1*01:60 DRB1*01:62N DRB1*01:64 DRB1*01:67 DRB1*07:31 DRB1*07:33 DRB1*07:35
792	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	SSP SSO NGS	DRB1*01:100
793					*01:01	*02:01					*04:02	*11:01	SSP	
794	*01:01:01	*07:01:01	4*01:01:01	NP	*01:01	*02:01	*02:02	*05:01	NT	NT	*04:02:01	*11:01:01	SSP SSO NGS RT-PCR	
2344	*01:01:01	*07:01:01	NT	NT	NT	NT	*02:02:01	*05:01:01	NT	NT	*04:02:01	*11:01:01	NGS	DRB1*01:100
2400	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01			*04:02	*11:01	SSO NGS	
3135	*01:01:01G	*07:01:01G	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01		DQA1*01:04 DQA1*01:05
3224	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	NGS	
3511	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	SSP SSO	
3519	*01:01P	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	SSP SSO RT-PCR	DRB1*01:100
3966	*01:01	*07:01	4*01:01				*02:02	*05:01					SSP	
4251	*01:01:01G	*07:01:01G	4*01:01		*01:01	*02:01	*02:01:01G	*05:01:01G	*01:03:01G	*02:01:01G	*04:02	*11:01	NGS	
4337	*01:01	*07:01					*02:02	*05:01			*04:02	*11:01	SSP SBT NGS	
5130	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01			*04:02	*11:01	SSO NGS	
5133	*01:01:01	*07:01:01	4*01:01:01		*01:01:01	*02:01:01	*02:02:01	*05:01:01	*01:03:01	*02:01:01	*04:02:01	*11:01:01	NGS	
5214											*04:02G	*11:01G	SSO	
5219	*01:01:01	*07:01:01					*02:02:01	*05:01:01			*04:02:01	*11:01:01	SSO NGS	
5451	*01:01:01	*07:01:01											SSO SBT	
5488	*01:01:01	*07:01:01			*01:01:01	*02:01:01	*02:02:01	*05:01:01	*01:03:01	*02:01:01	*04:02:01	*11:01:01	SSP SSO NGS	DRB1*01:100
5642	*01:01	*07:01					*02:02	*05:01					SSP	

**Table 5b: Individual laboratory results for B-cell #578 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
8021	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01		
8043	*01:01	*07:01			*01:01	*02:01	*02:02	*05:01					SSP SSO	
8086	*01:01	*07:01			*01:01	*02:01	*02:02	*05:01	*01:03:01G	*02:01:01G	*04:02	*11:01	SBT	
8122	*01:01:01	*07:01:01	4*01:01:01	NP	*01:01:01	*02:01:01	*02:02:01	*05:01:01	*01:03:01	*02:01:01	*04:02:01	*11:01:01	NGS	

**Table 6: Individual laboratory results for B-cell #578 - Class I**

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSO NGS	
278	*24	*31	*07	*49	*07	*07	*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSP SSO	
725	*24	*31	*07	*49	*07								SSP SSO	
731	*24	*31	*07	*49	*07	*07	*24:21:01	*31:01:02G	*07:02:01G	*49:01:01G	*07:01:01G	*07:02:01G	SSO SBT RT-PCR	
747	*24	*31	*07	*49	*07	*07	*24:21:01	*31:01:02:01	*07:02:01	*49:01:01	*07:01:01	*07:02:01	SSP SSO NGS	
771	*24	*31	*07	*49	*07	*07	*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSO NGS	
774	*24	*31	*07	*49	*07								SSP SSO	
792	*24	*31	*07	*49	*07	*07	*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSP SSO NGS	
793	*24	*31	*07	*49	*07								SSP	
794	*24	*31	*07	*49	*07		*24:21:01	*31:01:02	*07:02:01	*49:01:01	*07:01:01	*07:02:01	SSP SSO NGS RT-PCR	
2344							*24:21:01	*31:01:02	*07:02:01	*49:01:01	*07:01:01	*07:02:01	NGS	
2400	*24	*31	*07	*49	*07		*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSO NGS	
2847	*24	*31	*07	*49	*07	*07							SSO	
3135							*24:21	*31:01	*07:02	*49:01	*07:01:01G	*07:02		
3224							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	NGS	
3511							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSP SSO	
3519	*24	*31	*07	*49	*07		*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSP NGS RT-PCR	
3753	*24	*31	*07	*49	*07	*07							SSO	
3966	*24	*31	*07	*49	*07	*07							SSP	
4079	*24	*31	*07	*49	*07	*07							SSO	
4251							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	NGS	
4337							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSP SBT NGS	
5130	*24	*31	*07	*49	*07	*07	*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSO NGS	
5133							*24:21:01	*31:01:02:01	*07:02:01:01	*49:01:01:01	*07:01:01:16	*07:02:01:03	NGS	
5214	*24	*31	*07	*49	*07								SSO	
5219	*24	*31	*07	*49	*07	*07	*24:21:01	*31:01:02	*07:02:01	*49:01:01	*07:01:01	*07:02:01	SSO NGS	
5462	*24	*31	*07	*49	*07								RT-PCR	
5488							*24:21:01	*31:01:02	*07:02:01	*49:01:01	*07:01:01	*07:02:01	SSP SSO NGS	
8021							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02		
8029	*24	*31	*07	*49	*07	*07							SSO	
8068	*24	*31	*07	*49	*07								SSO	
8086							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SBT	
8122							*24:21:01	*31:01:02	*07:02:01	*49:01:01	*07:01:01	*07:02:01	NGS	

## CELL EXCHANGE #418

The results for Cell Exchange #418 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. Fifteen 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 the class II assignment can be graded. Haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

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**Cell 1669.** A\*24:02-A\*68:03-B\*39:05-B\*44:02-C\*07:02-C\*16:04 is the reported class I consensus type for this cell from a Hispanic donor. Additionally, 9 labs submitted class II high resolution typing results for this sample, with the class II type reported as, DRB1\*04:07-DRB1\*07:01-DRB4\*01:01-DRB4\*01:03-DQA1\*02:01-DQA1\*03:01-DQB1\*02:02-DQB1\*03:02-DPA1\*01:03-DPA1\*02:01-DPB1\*04:02-DPB1\*11:01.

Only likely association present, A\*68:03-B\*39:05-DRB1\*04:07, is commonly observed in Hispanics, with HF = 0.00652. The other association likely present is A\*24:02-B\*44:02-DRB1\*07:01, observed in Caucasians, with HF = 0.00016. This sample was examined previously in the Cell Exchange as cell 1364 (2009) and cell 1328 (2008). In the present study, good agreement (< 90%) was achieved for all allele assignments.

**Cell 1670.** A\*24:02-A\*68:02-B\*51:01-B\*81:01-C\*15:02-C\*18:01 is the reported class I consensus type for this cell from a Black donor. Eight labs reported high resolution class II typing results for this sample. The class II type was reported as DRB1\*09:01-DRB1\*11:01-DRB3\*02:02-DRB4\*01:01-DQA1\*03:03-DQA1\*05:05-DQB1\*02:02-DQB1\*03:01-DPA1\*01:03-DPA1\*02:02-DPB1\*01:01-DPB1\*04:01.

Class I associations likely present in this cell are A\*68:02-B\*81:01-C\*18:01 and A\*24:02-B\*51:01-C\*15:02, observed in African American populations, with respective HF = 0.00165 and 0.00042. This cell was examined several times in the Exchange as cells 1595 (2017), 1461 (2012), 1354 (2009), and 1295 (2007). In the present retyping, good agreement (< 90%) was achieved for all allele assignments.

**Cell 1671.** A\*11:01-A\*34:01-B\*15:35-B\*55:02-C\*01:02-C\*07:02 is the reported class I consensus type for this cell from a Filipino donor. High resolution class II typing results were reported by 8 labs, with the class II type reported as DRB1\*04:05-DRB1\*12:02-DRB3\*03:01-DRB4\*01:03-DQA1\*03:03-DQA1\*06:01-DQB1\*03:01-DQB1\*04:02-DPA1\*02:02-DPB1\*01:01-DPB1\*05:01.

Likely associations present in this cell are A\*34:01-B\*15:35-DRB1\*04:05 A\*11:01-B\*55:02-DRB1\*12:02. Each are observed exclusively in Asian populations, with respective HF = 0.00224. and 0.00032. Good agreement (< 90%) was achieved for allele assignments.

**Cell 1672.** A\*32:01-A\*68:01-B\*07:02-B\*35:43-C\*01:02-C\*07:02 is the consensus class I type for this sample from a Hispanic donor. A number of labs (n= 8) reported class II high resolution results for this cell, with the class II type reported as DRB1\*04-DRB1\*15:01-DRB4\*01:03-DRB5\*01:01-DQA1\*01:02-DQA1\*03:01-DQB1\*03:02-DQB1\*06:02-DPA1\*01:03-DPB1\*04:01-DPB1\*04:02.

From family studies, the haplotypes present in this cell were determined to be A\*32:01-B\*07:02-C\*07:02-DRB1\*15:01-DRB5\*01:01-DQA1\*01:02-DQB1\*06:02-DPB1\*04:01 and A\*68:01-B\*35:43-C\*01:02-DRB1\*04-DRB4\*01:03-DQA1\*03:01-DQB1\*03:02-DPB1\*04:02. This cell was previously examined in the Exchange as cells 1558 (2015) and 1492 (2013). In this present retyping, good agreement (< 90%) was once again achieved for class I allele assignments. For class II, labs were unable to resolve the subtype for DRB1\*04. Three labs assigned DRB1\*04:92, 3 labs assigned DRB1\*04:07, and 2 labs assigned DRB1\*04:07:01G. DRB1\*04:92 differs from DRB1\*04:07:01 in exon 4 by a single amino acid substitution at codon 207 (GTG → ATG) where valine is replaced by methionine in DRB1\*04:92.

**Table 7: Summary of the 418<sup>th</sup> Cell Exchange - DNA Typing**

**Cell 1669**

DNA Typing - class I		11 labs High; 16 labs low- A		13 labs High; 16 labs low- B		12 labs High; 15 labs low- C							
		%(n)	%(n)	%(n)	%(n)	%(n)	%(n)						
DNA Typing - class I	A*24:02:01:01	18(2)	B*39:05:01:01	8 (1)	C*07:02:01:01	8 (1)							
	A*24:02:01	9 (1)	B*39:05:01	23(3)	C*07:02:01	17(2)							
	A*24:02:01G	9 (1)	B*39:05	69(9)	C*07:02:01G	17(2)							
	A*24:02	64(7)	B*39	100(16)	C*07:02	58(7)							
	A*24	100(16)			C*07	100(15)							
12 labs High; 16 labs low- A		%(n)	11 labs High; 16 labs low- B	%(n)	12 labs High; 15 labs low- C	%(n)	%(n)						
A*68:03:01:01	8 (1)	B*44:02:01:01	9 (1)	C*16:04:01:01	8 (1)								
A*68:03:01	25(3)	B*44:02:01	18(2)	C*16:04:01	25(3)								
A*68:03	67(8)	B*44:02:01G	9 (1)	C*16:04	67(8)								
A*68	100(16)	B*44:02P	9 (1)	C*16	100(15)								
		B*44:02	55(6)										
		B*44	100(16)										
DNA Typing - class II		9 labs High; 10 labs low-DRB1	%(n)	4 labs High; 7 labs low-DRB3/4/5	%(n)	5 labs High; 9 labs Low-DQA1	%(n)	8 labs High; 9 labs Low-DQB1	%(n)	4 labs High; 6 labs Low-DPA1	%(n)	8 labs High; 6 labs Low-DPB1	%(n)
DNA Typing - class II	DRB1*04:07:01	11(1)	DRB4*01:01:01	25(1)	DQA1*02:01:01	40(2)	DQB1*02:02	100(8)	DPA1*01:03:01	25(1)	DPB1*04:02:01	25(2)	
	DRB1*04:07:01G	11(1)	DRB4*01:01	75(3)	DQA1*02:01	60(3)	DQB1*02	100(9)	DPA1*01:03	75(3)	DPB1*04:02:01G	25(2)	
	DRB1*04:07	78(7)	DRB4*01	86(6)	DQA1*02	100(9)			DPA1*01	100(6)	DPB1*04:02	50(2)	
	DRB1*04	100(10)	DRB4*PRESENT	14(1)							DPB1*04(DP402)	67(4)	
											DPB1*04	33(2)	
8 labs High; 10 labs low-DRB1		%(n)	4 labs High-DRB3/4/5	%(n)	5 labs High; 9 labs Low-DQA1	%(n)	8 labs High; 9 labs Low-DQB1	%(n)	4 labs High; 6 labs Low-DPA1	%(n)	8 labs High; 6 labs Low-DPB1	%(n)	
DRB1*07:01:01	12(1)	DRB4*01:03:02	25(1)	DQA1*03:01:01	20(1)	DQB1*03:02	100(8)	DPA1*02:01:01	25(1)	DPB1*11:01:01	38(3)		
DRB1*07:01:01G	12(1)	DRB4*01:03	75(3)	DQA1*03:01:01G	20(1)	DQB1*03(DQ8)	11(1)	DPA1*02:01	75(3)	DPB1*11:01G	12(1)		
DRB1*07:01	75(6)			DQA1*03:01	60(3)	DQB1*03	89(8)	DPA1*02	100(6)	DPB1*11:01	50(4)		
DRB1*07	100(10)			DQA1*03	100(9)					DPB1*11	100(6)		

**Table 8: Summary of the 418<sup>th</sup> Cell Exchange - DNA Typing**

**Cell 1670**

DNA Typing - class I		<u>11 labs High; 16 labs low- A</u>		<u>11 labs High; 16 labs low- B</u>		<u>11 labs High; 15 labs low- C</u>							
			%(n)		%(n)		%(n)						
	A*24:02:01:01	18(2)		B*51:01:01	27(3)	C*15:02:01:01	9 (1)						
	A*24:02:01	9 (1)		B*51:01:01G	9 (1)	C*15:02:01	18(2)						
	A*24:02:01G	9 (1)		B*51:01P	9 (1)	C*15:02:01G	9 (1)						
	A*24:02	64(7)		B*51:01	55(6)	C*15:02	64(7)						
	A*24	100(16)		B*51	100(16)	C*15	100(15)						
DNA Typing - class I		<u>12 labs High; 16 labs low- A</u>		<u>11 labs High; 16 labs low- B</u>		<u>11 labs High; 15 labs low- C</u>							
			%(n)		%(n)		%(n)						
	A*68:02:01:01	17(2)		B*81:01:01	9 (1)	C*18:01:01	9 (1)						
	A*68:02:01	8 (1)		B*81:01:01G	9 (1)	C*18:01:01G	9 (1)						
	A*68:02:01G	8 (1)		B*81:01	82(9)	C*18:01	82(9)						
	A*68:02	67(8)		B*81	100(16)	C*18	100(15)						
	A*68	100(16)											
DNA Typing - class II		<u>8 labs High; 10 labs low-DRB1</u>		<u>4 labs High; 7 labs low-DRB3/4/5</u>		<u>4 labs High; 9 labs Low-DQA1</u>		<u>8 labs High; 9 labs Low-DQB1</u>		<u>3 labs High; 6 labs Low-DPA1</u>		<u>8 labs High; 6 labs Low-DPB1</u>	
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*09:01:02	25(2)		DRB3*02:02:01	25(1)	DQA1*03:03:01	50(2)	DQB1*02:02:01	38(3)	DPA1*01:03:01	33(1)	DPB1*01:01:01	25(2)
	DRB1*09:01:02G	12(1)		DRB3*02:02	75(3)	DQA1*03:03	50(2)	DQB1*02:02	62(5)	DPA1*01:03	67(2)	DPB1*01:01:01G	25(2)
	DRB1*09:01	63(5)		DRB3*02	86(6)	DQA1*03	100(9)	DQB1*02	100(9)	DPA1*01	100(6)	DPB1*01:01	50(4)
	DRB1*09	100(10)		DRB3*PRESENT	14(1)							DPB1*01	100(6)
DNA Typing - class II		<u>8 labs High; 10 labs low-DRB1</u>		<u>4 labs High; 7 labs low-DRB3/4/5</u>		<u>4 labs High; 9 labs Low-DQA1</u>		<u>7 labs High; 9 labs Low-DQB1</u>		<u>3 labs High; 6 labs Low-DPA1</u>		<u>8 labs High; 6 labs Low-DPB1</u>	
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*11:01:01	25(2)		DRB4*01:01:01	25(1)	DQA1*05:05:01	50(2)	DQB1*03:01:01G	14(1)	DPA1*02:02:02	33(1)	DPB1*04:01:01	25(2)
	DRB1*11:01:01G	12(1)		DRB4*01:01	75(3)	DQA1*05:05	50(2)	DQB1*03:01	86(6)	DPA1*02:02	67(2)	DPB1*04:01:01G	25(2)
	DRB1*11:01	63(5)		DRB4*01	86(6)	DQA1*05	100(9)	DQB1*03(DQ7)	11(1)	DPA1*02	100(6)	DPB1*04:01	50(4)
	DRB1*11	100(10)		DRB4*PRESENT	14(1)			DQB1*03	89(8)			DPB1*04(DP401)	67(4)
												DPB1*04	33(2)

**Table 9: Summary of the 418<sup>th</sup> Cell Exchange - DNA Typing**

**Cell 1671**

DNA Typing - class I		<u>10 labs High; 14 labs low- A</u>		<u>12 labs High; 14 labs low- B</u>		<u>11 labs High; 13 labs low- C</u>							
			%(n)		%(n)		%(n)						
	A*11:01:01:01	20(2)		B*15:35	100(12)	C*01:02:01:01	9 (1)						
	A*11:01:01G	10(1)		B*15(B62)	7 (1)	C*01:02:01	9 (1)						
	A*11:01	70(7)		B*15	93(14)	C*01:02:01G	9 (1)						
	A*11	100(14)				C*01:02	73(8)						
						C*01	92(12)						
						C*15	8 (1)						
DNA Typing - class II		<u>8 labs High; 8 labs low-DRB1</u>		<u>3 labs High; 5 labs low-DRB3/4/5</u>		<u>3 labs High; 7 labs Low-DQA1</u>		<u>6 labs High; 7 labs Low-DQB1</u>		<u>2 labs High; 5 labs Low-DPA1</u>		<u>7 labs High; 4 labs Low-DPB1</u>	
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*04:05:01	25(2)		DRB3*03:01	100(3)	DQA1*03:03:01	33(1)	DQB1*03:01:01G	17(1)	DPA1*02:02	100(1)	DPB1*01:01:01G	29(2)
	DRB1*04:05	75(6)		DRB3*03	100(5)	DQA1*03:03	67(2)	DQB1*03:01:01	17(1)	DPA1*02	100(5)	DPB1*01:01:01	14(1)
	DRB1*04	100(8)				DQA1*03	100(7)	DQB1*03:01	67(4)			DPB1*01:01	57(4)
								DQB1*03(DQ7)	14(1)			DPB1*01	100(4)
								DQB1*03	86(6)				
DNA Typing - class II		<u>8 labs High; 8 labs low-DRB1</u>		<u>2 labs High; 5 labs low-DRB3/4/5</u>		<u>4 labs High; 7 labs Low-DQA1</u>		<u>47 labs High; 7 labs Low-DQB1</u>				<u>7 labs High; 4 labs Low-DPB1</u>	
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*12:02:01	25(2)		DRB4*01:03	100(2)	DQA1*06:01:01G	25(1)	DQB1*04:02:01G	14(1)			DPB1*05:01:01G	29(2)
	DRB1*12:02	75(6)		DRB4*01	100(5)	DQA1*06:01	75(3)	DQB1*04:02:01	14(1)			DPB1*05:01:01	14(1)
	DRB1*12	100(8)				DQA1*06	100(7)	DQB1*04:02	71(5)			DPB1*05:01	57(4)
								DQB1*04	100(7)			DPB1*05	100(4)

**Table 10: Summary of the 418<sup>th</sup> Cell Exchange - DNA Typing**

**Cell 1672**

<b>DNA Typing - class I</b>		<b>10 labs High; 14 labs low- A</b>		<b>10 labs High; 14 labs low- B</b>		<b>10 labs High; 13 labs low- C</b>							
	<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>						
A*32:01:01:01	20(2)	B*07:02:01:01	10(1)	C*01:02:01:01	10(1)								
A*32:01:01G	10(1)	B*07:02:01	10(1)	C*01:02:01	10(1)								
A*32:01	70(7)	B*07:02:01G	10(1)	C*01:02:01G	10(1)								
A*32	100(14)	B*07:02	70(7)	C*01:02	70(7)								
		B*07	100(14)	C*01	100(13)								
<b>DNA Typing - class I</b>		<b>10 labs High; 14 labs low- A</b>		<b>12 labs High; 14 labs low- B</b>		<b>11 labs High; 13 labs low- C</b>							
	<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>						
A*68:01:02:01	20(2)	B*35:43:01	17(2)	C*07:02:01:03	18(2)								
A*68:01:02G	10(1)	B*35:43:01G	8 (1)	C*07:02:01G	18(2)								
A*68:01	70(7)	B*35:43	75(9)	C*07:02	64(7)								
A*68	100(14)	B*35	100(14)	C*07	100(13)								
<b>DNA Typing - class II</b>		<b>8 labs High; 8 labs low-DRB1</b>		<b>3 labs High; 5 labs low-DRB3/4/5</b>		<b>4 labs High; 7 labs Low-DQA1</b>		<b>7 labs High; 7 labs Low-DQB1</b>		<b>2 labs High; 5 labs Low-DPA1</b>		<b>7 labs High; 4 labs Low-DPB1</b>	
	<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>
DRB1*04:07:01G	25(2)	DRB4*01:03	100(3)	DQA1*01:02:01G	25(1)	DQB1*03:02:01G	14(1)	DPA1*01:03	100(2)	DPB1*04:01:01G	43(3)		
DRB1*04:07	37(3)	DRB4*01	100(5)	DQA1*01:02	75(3)	DQB1*03:02	86(6)	DPA1*01	100(5)	DPB1*04:01:01	14(1)		
DRB1*04:92	37(3)			DQA1*01	100(7)	DQB1*03(DQ8)	14(1)			DPB1*04:01P	29(2)		
DRB1*04	100(8)					DQB1*03	86(6)			DPB1*04:01	14(1)		
										DPB1*04(DP401)	75(3)		
										DPB1*04	25(1)		
<b>DNA Typing - class II</b>		<b>8 labs High; 8 labs low-DRB1</b>		<b>3 labs High; 5 labs low-DRB3/4/5</b>		<b>4 labs High; 7 labs Low-DQA1</b>		<b>5 labs High; 7 labs Low-DQB1</b>		<b>7 labs High; 4 labs Low-DPB1</b>			
	<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>		<b>%(n)</b>		
DRB1*15:01:01	12(1)	DRB5*01:01	100(3)	DQA1*03:01:01G	25(1)	DQB1*06:02:01	20(1)			DPB1*04:02:01G	43(3)		
DRB1*15:01:01G	25(2)	DRB5*01	100(5)	DQA1*03:01	75(3)	DQB1*06:02:01G	20(1)			DPB1*04:02P	28(2)		
DRB1*15:01	63(5)			DQA1*03	100(7)	DQB1*06:02	60(3)			DPB1*04:02	28(2)		
DRB1*15	100(8)					DQB1*06	100(7)			DPB1*04(DP402)	75(3)		
										DPB1*04	25(1)		



**Table 11. Summary of the 418<sup>th</sup> Cell Exchange (Cell #1669- 1672)**

**Serological typing**

(Hispanic) <b>Cell 1669</b>	
(6 Samples Typed)	
A24	100.0%
	[100.0%]
A68	83.3%
A28	16.7%
	[100.0%]
B39	66.7%
B16	16.7%
	[83.3%]
B44	83.3%
	[83.3%]
Bw4	100.0%
Bw6	100.0%
Others Found	
B45	16.7%
B38	16.7%

(Black) <b>Cell 1670</b>	
(6 Samples Typed)	
A24	100.0%
	[100.0%]
A68	66.7%
A28	33.3%
	[100.0%]
B51	100.0%
	[100.0%]
B81	100.0%
	[100.0%]
Bw4	100.0%
Bw6	100.0%
Others Found	

(Filipino) <b>Cell 1671</b>	
(3 Samples Typed)	
A11	100.0%
	[100.0%]
A34	100.0%
	[100.0%]
B62	100.0%
	[100.0%]
B55	100.0%
	[100.0%]
Bw6	100.0%
Others Found	

(Hispanic) <b>Cell 1672</b>	
(4 Samples Typed)	
A32	100.0%
	[100.0%]
A68	75.0%
A28	25.0%
	[100.0%]
B7	100.0%
	[100.0%]
B35	100.0%
Bw6	100.0%
Others Found	

**Table 12. Individual laboratory results for Cell #1669 - Class I**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*24	*68	*39	*44	*07	*16	*24:02	*68:03	*39:05	*44:02	*07:02	*16:04		
725	*24	*68	*39	*44	*07	*16							SSO	
731	*24	*68	*39	*44	*07	*16	*24:02:01G	*68:03:01	*39:05:01	*44:02:01G	*07:02:01G	*16:04:01	SSO SBT NGS	
745							*24:02:01:01	*68:03:01	*39:05:01	*44:02:01	*07:02:01	*16:04:01	SSP SBT NGS	
747	*24	*68	*39	*44	*07	*16	*24:02:01	*68:03:01	*39:05:01	*44:02:01	*07:02:01	*16:04:01	SSP SSO NGS	
762							*24:02	*68:03	*39:05	*44:02	*07:02	*16:04	NGS	
771	*24	*68	*39	*44	*07	*16	*24:02	*68:03	*39:05	*44:02	*07:02	*16:04	SSO NGS	
774	*24	*68	*39	*44	*07	*16			*39:05				SSP SSO	B*39:56
3186	*24	*68	*39	*44	*07	*16							SSO	
														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 A*24:473Q A*24:474 A*24:479Q B*44:19N B*44:270 B*44:292 B*44:301 B*44:306N B*44:321 B*44:344 B*44:437 B*44:457 B*44:464 B*44:468 B*44:470 B*44:473 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*07:736 C*07:741 C*07:767+
3545	*24	*68	*39	*44	*07	*16	*24:02	*68:03	*39:05	*44:02	*07:02	*16:04	SSO SBT	
3808	*24	*68	*39	*44	*07	*16		*68:03	*39:05		*07:02:01G	*16:04	SSO	
4079							*24:02	*68:03	*39:05	*44:02	*07:02	*16:04	SSP NGS	
4251							*24:02	*68:03	*39:05	*44:02	*07:02	*16:04	NGS	
5133							*24:02:01:01	*68:03:01:01	*39:05:01:01	*44:02:01:01	*07:02:01:01	*16:04:01:01	NGS	
5214	*24	*68	*39	*44	*07	*16							SSO	
5462	*24	*68	*39	*44	*07	*16	*24:02	*68:03	*39:05	*44:02P	*07:02	*16:04	SSO NGS	B*44:479 B*44:470
6649	*24	*68	*39	*44									SSO	
8001	*24	*68	*39	*44	*07	*16							SSP SSO	
8043	*24	*68	*39	*44	*07	*16							SSO	
8103	*24	*68	*39	*44	*07	*16							SSO	
													SSP SBT NGS	
8119	*24	*68	*39	*44	*07	*16							RT-PCR	

**Table 13a: Individual laboratory results for Cell #1669 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*04	*07	4*PRESENT	4*PRESENT	*02	*03	*02	*03	*01	*02	*04	*11	SSP SSO NGS	
771	*04	*07			*02	*03	*02	*03					SSO NGS	
3186	*04	*07	4*01		*02	*03	*02	*03	*01	*02	*04(DP402)	*11	SSO	
3545	*04	*07											SSO SBT	
3808	*04	*07	NT	NT	*02	*03	*02	*03	*01	*02	*04(DP402)	*11	SSO	
5214	*04	*07	4*01		*02	*03	*02	*03 (DQ8)	*01	*02	*04(DP402)	*11	SSO	
5462	*04	*07	4*01	4*01	*02	*03	*02	*03	*01	*02	NT	NT	SSO NGS	
8001	*04	*07	4*01	4*01	*02	*03	*02	*03					SSP SSO	
8103	*04	*07	4*01	4*01	*02	*03	*02	*03	*01	*02	*04	*11	SSO	
8119	*04	*07	4*01		*02	*03	*02	*03			*04(DP402)	*11	SSP SBT NGS RT-PCR	

**Table 13b: Individual laboratory results for Cell #1669 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*04:07:01G	*07:01:01G			*02:01:01	*03:01:01G	*02:02	*03:02			*04:02:01G	*11:01:01	SSO SBT NGS	
745	*04:07	*07:01					*02:02	*03:02			*04:02:01	*11:01:01	SSP SBT NGS	DRB1*07:79 DRB1*07:93 DQB1*02:156 DQB1*03:289
747	*04:07:01	*07:01:01	4*01:01:01	4*01:03:02	*02:01:01	*03:01:01	*02:02	*03:02	*01:03:01	*02:01:01	*04:02:01	*11:01:01	SSP SSO NGS	DQB1*02:156 DQB1*03:289 DQB1*02:163N
771	*04:07	*07:01					*02:02	*03:02					SSO NGS	
774													SSP SSO	B*39:56
3545	*04:07	*07:01											SSO SBT	DRB1*04:92 DRB1*07:79 DRB1*07:93
3808	*04:07				*02:01	*03:01	*02:02	*03:02	*01:03	*02:01	*04:02	*11:01	SSO	
4079	*04:07	*07:01	4*01:01	4*01:03	*02:01	*03:01	*02:02	*03:02	*01:03	*02:01	*04:02	*11:01	SSP NGS	
5214											*04:02G	*11:01G	SSO	
5462	*04:07	*07:01	4*01:01	4*01:03	*02:01	*03:01	*02:02	*03:02	*01:03	*02:01	*04:02	*11:01	SSO NGS	
8001	*04:07	*07:01	4*01:01	4*01:03			*02:02	*03:02			*04:02	*11:01	SSP SSO	

**Table 14. Individual laboratory results for Cell #1670 - Class I**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*24	*68	*51	*81	*15	*18	*24:02	*68:02	*51:01	*81:01	*15:02	*18:01		
725	*24	*68	*51	*81	*15	*18							SSO	
731	*24	*68	*51	*81	*15	*18	*24:02:01G	*68:02:01G	*51:01:01G	*81:01:01G	*15:02:01G	*18:01:01G	SSO SBT NGS	
745							*24:02:01:01	*68:02:01:01	*51:01:01	*81:01	*15:02:01:01	*18:01	SSP SBT NGS	
747	*24	*68	*51	*81	*15	*18	*24:02:01	*68:02:01	*51:01:01	*81:01	*15:02:01	*18:01	SSP SSO NGS	
762							*24:02	*68:02	*51:01	*81:01	*15:02	*18:01	NGS	
771	*24	*68	*51	*81	*15	*18	*24:02	*68:02	*51:01	*81:01	*15:02	*18:01	SSO NGS	
774	*24	*68	*51	*81	*15	*18							SSP SSO	
3186	*24	*68	*51	*81	*15	*18							SSO	
														B*51:289 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 A*24:473Q A*24:474 A*24:479Q A*68:163 A*68:198 A*68:216N 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 B*51:269 B*51:270 B*51:271 B*51:285 B*51:286 B*51:296 B*51:297 B*51:308 B*51:309 B*81:02 C*15:87 C*15:154 C*15:176 C*18:02 C*18:11 C*15:197 C*15:202 C*15:205
3545	*24	*68	*51	*81	*15	*18	*24:02	*68:02	*51:01	*81:01	*15:02	*18:01	SSO SBT	
3808	*24	*68	*51	*81	*15	*18		*68:02					SSO	
4079							*24:02	*68:02	*51:01	*81:01	*15:02	*18:01	SSP NGS	
4251							*24:02	*68:02	*51:01	*81:01	*15:02	*18:01	NGS	
5133							*24:02:01:01	*68:02:01:01	*51:01:01	*81:01:01	*15:02:01	*18:01:01	NGS	
5214	*24	*68	*51	*81	*15	*18							SSO	
5462	*24	*68	*51	*81	*15	*18	*24:02	*68:02	*51:01P	*81:01	*15:02	*18:01	SSO NGS	B*51:289
6649	*24	*68	*51	*81									SSO	
8001	*24	*68	*51	*81	*15	*18							SSP SSO	
8043	*24	*68	*51	*81	*15	*18							SSO	
8103	*24	*68	*51	*81	*15	*18							SSO	
													SSP SBT NGS	
8119	*24	*68	*51	*81	*15	*18							RT-PCR	

**Table 15a: Individual laboratory results for Cell #1670 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*09	*11	3*PRESENT	4*PRESENT	*03	*05	*02	*03	*01	*02	*01	*04	SSP SSO NGS	
771	*09	*11			*03	*05	*02	*03					SSO NGS	
3186	*09	*11	3*02	4*01	*03	*05	*02	*03	*01	*02	*01	*04(DP401)	SSO	
3545	*09	*11											SSO SBT	
3808	*09	*11	NT	NT	*03	*05	*02	*03	*01	*02	*01	*04(DP401)	SSO	
5214	*09	*11	3*02	4*01	*03	*05	*02	*03(DQ7)	*01	*02	*01	*04(DP401)	SSO	
5462	*09	*11	3*02	4*01	*03	*05	*02	*03	*01	*02	NT	NT	SSO NGS	
8001	*09	*11	3*02	4*01	*03	*05	*02	*03					SSP SSO	
8103	*09	*11	3*02	4*01	*03	*05	*02	*03	*01	*02	*01	*04	SSO	
													SSP SBT NGS	
8119	*09	*11	3*02	4*01	*03	*05	*02	*03			*01	*04(DP401)	RT-PCR	

**Table 15b: Individual laboratory results for Cell #1670 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*09:01:02G	*11:01:01G			*03:03:01	*05:05:01	*02:02:01	*03:01:01G			*01:01:01G	*04:01:01G	SSO SBT NGS	
745	*09:01:02	*11:01:01					*02:02:01	*03:01			*01:01:01	*04:01:01	SSP SBT NGS	DQB1*03:297
747	*09:01:02	*11:01:01	3*02:02:01	4*01:01:01	*03:03:01	*05:05:01	*02:02:01	*03:01	*01:03:01	*02:02:02	*01:01:01	*04:01:01	SSP SSO NGS	DQB1*03:297
771	*09:01	*11:01					*02:02	*03:01					SSO NGS	DQB1*02:163N
3545	*09:01	*11:01											SSO SBT	DRB1*09:21
3808							*02:02				*01:01	*04:01	SSO	DRB1*09:31
4079	*09:01	*11:01	3*02:02	4*01:01	*03:03	*05:05	*02:02	*03:01	*01:03	*02:02	*01:01	*04:01	SSP NGS	
5214											*01:01G	*04:01G	SSO	
5462	*09:01	*11:01	3*02:02	4*01:01	*03:03	*05:05	*02:02	*03:01	*01:03	*02:02	*01:01	*04:01	SSO NGS	
8001	*09:01	*11:01	3*02:02	4*01:01			*02:02	*03:01			*01:01	*04:01	SSP SSO	

**Table 16. Individual laboratory results for Cell #1671 - Class I**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*34	*15	*55	*01	*07	*11:01	*34:01	*15:35	*55:02	*01:02	*07:02		
725	*11	*34	*15	*55	*01	*07							SSO	
731	*11	*34	*15	*55	*15	*07	*11:01:01G	*34:01:01G	*15:35	*55:02:01G	*01:02:01G	*07:02:01G	SSO SBT NGS	
745							*11:01:01:01	*34:01:01:01	*15:35	*55:02:01	*01:02:01	*07:02:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*11:01	*34:01	*15:35	*55:02	*01:02	*07:02	NGS	
771	*11	*34	*15	*55	*01	*07	*11:01	*34:01	*15:35	*55:02	*01:02	*07:02	SSO NGS	
774	*11	*34	*15	*55	*01	*07			*15:35				SSP SSO	
3186	*11	*34	*15	*55	*01	*07							SSO	
														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 A*11:347N A*11:353 A*34:18 C*07:349 C*07:566 C*07:592 C*07:594 C*01:85 C*01:127 C*01:142 C*01:150 C*01:151 C*07:50 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*07:736 C*07:741 C*07:767 C*07:769 C*07:779 C*07:783 C*07:789 C*07:791 C*07:801 C*07:807N C*07:809 C*07:810 C*01:164 C*01:172 C*01:173 C*01:174 C*01:182 C*01:185Q B*55:107 C*07:818 C*07:822
3545	*11	*34	*15	*55	*01	*07	*11:01	*34:01	*15:35	*55:02	*01:02	*07:02	SSO SBT	
3808	*11	*34	*15	*55	*01	*07			*15:35	*55:02	*01:02	*07:02:01G	SSO	
4079							NT	NT	NT	NT	NT	NT	SSP NGS	
4251							*11:01	*34:01	*15:35	*55:02	*01:02	*07:02	NGS	
5214	*11	*34	*15	*55	*01	*07							SSO	
5133							*11:01:01:01	*34:01:01:01	*15:35	*55:02:01	*01:02:01:01	*07:02:01:01	NGS	
5462	*11	*34	*15	*55	*01	*07	*11:01	*34:01	*15:35	*55:02	*01:02	*07:02	SSO NGS	
6649	*11	*34	*15	*55									SSO	
8001	*11	*34	*15(B62)	*55	*01	*07							SSP SSO	
8043	*11	*34	*15	*55	*01	*07							SSO	
8103	*11	*34	*15	*55	*01	*07							SSO	
													SSP SBT NGS	
8119							*11:01	*34:01	*15:35	*55:02	*01:02	*07:02	RT-PCR	

**Table 17a: Individual laboratory results for Cell #1671 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*04	*12			*03	*06	*03	*04					SSO NGS	
3186	*04	*12	3*03	4*01	*03	*06	*03	*04	*02		*01	*05	SSO	
3545	*04	*12											SSO SBT	
3808	*04	*12	NT	NT	*03	*06	*03	*04	*02	*02	*01	*05	SSO	
5214	*04	*12	3*03	4*01	*03	*06	*03(DQ7)	*04	*02		*01	*05	SSO	
5462	*04	*12	3*03	4*01	*03	*06	*03	*04	*02		NT	NT	SSO NGS	
8001	*04	*12	3*03	4*01	*03	*06	*03	*04					SSP SSO	
8103	*04	*12	3*03	4*01	*03	*06	*03	*04	*02	*02	*01	*05	SSO	
8119	NT												SSP SBT NGS RT-PCR	

**Table 17b: Individual laboratory results for Cell #1671 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*04:05:01	*12:02:01			*03:03:01	*06:01:01G	*03:01:01G	*04:02:01G			*01:01:01G	*05:01:01G	SSO SBT NGS	
745	*04:05:01	*12:02:01					*03:01:01	*04:02:01			*01:01:01	*05:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
771	*04:05	*12:02					*03:01	*04:02					SSO NGS	
3545	*04:05	*12:02											SSO SBT	
3808	*04:05	*12:02				*06:01		*04:02			*01:01	*05:01	SSO	
4079	NT												SSP NGS	
5214						*06:01					*01:01G	*05:01G	SSO	
5462	*04:05	*12:02	3*03:01	4*01:03	*03:03	*06:01	*03:01	*04:02	*02:02		*01:01	*05:01	SSO NGS	
8001	*04:05	*12:02	3*03:01	4*01:03			*03:01	*04:02			*01:01	*05:01	SSP SSO	
8119	*04:05	*12:02	3*03:01		*03:03	*06:01	*03:01	*04:02			*01:01	*05:01	SSP SBT NGS RT-PCR	

**Table 18. Individual laboratory results for Cell #1672 - Class I**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*32	*68	*07	*35	*01	*07	*32:01	*68:01	*07:02	*35:43	*01:02	*07:02		
725	*32	*68	*07	*35	*01	*07							SSO	
731	*32	*68	*07	*35	*01	*07	*32:01:01G	*68:01:02G	*07:02:01G	*35:43:01G	*01:02:01G	*07:02:01G	SSO SBT NGS	
745							*32:01:01:01	*68:01:02:01	*07:02:01	*35:43:01	*01:02:01	*07:02:01:03	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*32:01	*68:01	*07:02	*35:43	*01:02	*07:02	NGS	
771	*32	*68	*07	*35	*01	*07	*32:01	*68:01	*07:02	*35:43	*01:02	*07:02	SSO NGS	
774	*32	*68	*07	*35	*01	*07				*35:43			SSP SSO	B*35:67 B*35:79 B*35:102
3186	*32	*68	*07	*35	*01	*07							SSO	
														A*32:103 A*32:117N A*68:152 B*07:61 B*07:161N B*07:271 B*07:294 B*07:298 B*07:311 B*07:312 B*07:338 B*07:339 B*07:354 B*07:355 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 C*01:185Q 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*07:791 C*07:684 C*07:688 C*07:703 C*07:704 C*07:722 C*07:736 C*07:741 C*07:767+
3545	*32	*68	*07	*35	*01	*07	*32:01	*68:01	*07:02	*35:43	*01:02	*07:02	SSO SBT	
3808	*32	*68	*07	*35	*01	*07				*35:43		*07:02:01G	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
4251							*32:01	*68:01	*07:02	*35:43	*01:02	*07:02	NGS	
5133							*32:01:01:01	*68:01:02:01	*07:02:01:01	*35:43:01	*01:02:01:01	*07:02:01:03	NGS	
5214	*32	*68	*07	*35	*01	*07							SSO	
5462	*32	*68	*07	*35	*01	*07	*32:01	*68:01	*07:02	*35:43	*01:02	*07:02	SSO NGS	
6649	*32	*68	*07	*35									SSO	
8001	*32	*68	*07	*35	*01	*07							SSP SSO	
8043	*32	*68	*07	*35	*01	*07							SSO	
8103	*32	*68	*07	*35	*01	*07							SSO	
													SSP SBT NGS	
8119							*32:01	*68:01	*07:02	*35:43	*01:02	*07:02	RT-PCR	



**Table 19a: Individual laboratory results for Cell #1672 - Class II**

Low resolution														
Center	DRB1		DRB*03/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*04	*15			*01	*03	*03	*06					SSO NGS	
3186	*04	*15	4*01	5*01	*01	*03	*03	*06	*01		*(04(DP401)	*04(DP402)	SSO	
3545	*04	*15											SSO SBT	
3808	*04	*15	NT	NT	*01	*03	*03	*06	*01	*01	*(04(DP401)	*04(DP402)	SSO	
5214	*04	*15	4*01	5*01	*01	*03	*03(DQ8)	*06	*01		*(04(DP401)	*04(DP402)	SSO	
5462	*04	*15	4*01	5*01	*01	*03	*03	*06	*01		NT	NT	SSO NGS	
8001	*04	*15	4*01	5*01	*01	*03	*03	*06					SSP SSO	
8103	*04	*15	4*01	5*01	*01	*03	*03	*06	*01	*01	*04	*04	SSO	
8119	NT												SSP SBT NGS RT-PCR	

**Table 19b: Individual laboratory results for Cell #1672 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*04:07:01G	*15:01:01G			*01:02:01G	*03:01:01G	*03:02:01G	*06:02:01G			*04:01:01G	*04:02:01G	SSO SBT NGS	
745	*04:92	*15:01:01					*03:02	*06:02:01			*04:01:01	*04:02	SSP SBT NGS	DQB1*0*03:289 DPB1*105:01
747	NT												SSP SSO NGS	
771	*04:07	*15:01					*03:02						SSO NGS	
3545	*04:07	*15:01											SSO SBT	DRB1*04:92 DRB1*15:171
3808	*04:07	*15:01:01G			*01:02	*03:01	*03:02		*01:03	*01:03	*04:01:01G	*04:02:01G	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
5214											*04:01G	*04:02G	SSO	
5462	*04:92	*15:01	4*01:03	5*01:01	*01:02	*03:01	*03:02	*06:02	*01:03		*04:01P	*04:02P	SSO NGS	DPB1*126:01 DPB1*105:01 DPB1*665:01
8001	*04:07:01G	*15:01	4*01:03	5*01:01			*03:02	*06:02			*04:01	*04:02	SSP SSO	
8119	*04:92	*15:01	4*01:03	5*01:01	*01:02	*03:01	*03:02	*06:02			*04:01P	*04:02P	SSP SBT NGS RT-PCR	

**Table 20. Individual laboratory results for Cell #1669-1672 by serology**

Investigator	Days Old	Viab %	Cell No 1669 (Hispanic)								Cell No 1670 (Black)							Cell No 1671 (Filipino)							Cell No 1672 (Hispanic)											
			A24	A68	B39	B44	Cw7	Bw4	Bw6	OTHERS	Viab %	A24	A68	B51	B81	Bw4	Bw6	OTHERS	Viab %	A11	A34	B62	B55	Cw1	Cw7	Bw6	OTHERS	Viab %	A32	A68	B7	B35	Cw1	Cw7	Bw6	OTHERS
Cecka, J. Mic		>95	+	+	+	+		+	+		>95	+	+	+	+	+	+	>95	+	+	+	+			+		>95	+	+	+	+				+	
Fort, Marylis	3	93	+	+	+	+		+	+		93	+	+	+	+	+		NT								NT										
Gillis, David	14	50	+	A28	+	+		+	+		50	+	A28	+	+	+	+	20								50	+	A28	+	+				+		
Loewenthal ,	2	NT									NT							NT								NT										
Permpikul, Ve	6	90	+	+	B38	B45		+	+		90	+	+	+	+	+	+	90	+	+	+	+		+		90	+	+	+	+				+		
Villard, Jean	6	95	+	+	B16	+		+	+		95	+	A28	+	+	+	+	NT								NT										
Walsh, Lisa	3	90	+	+	+	+		+	+		90	+	+	+	+	+	+	90	+	+	+	+		+		90	+	+	+	+				+		

## SERUM EXCHANGE #576

The results for Serum Exchange #576 are summarized in Tables 21 - 29 and individual listing of results are shown in tables 30 - 43. Strong reactivity

to 1C and 10 C specificities, along with reactivity to a number of DR, DQ, and DP specificities, was examined in this study.

1297	method	#labs	A1	A23	A24	A80	B8	A11	A1102	A1101	A2403	A3	A36	B46	B49	B50	B56	B59	B62	B76	B35	B63	B71	B72	
class I	NIH-Std	1	no consensus																						
	NIH-Ext	1	undetermined																						
	AHG	1	no consensus																						
	Flow	1	no specificities assigned																						
	C1q	2	100%	100%	100%	100%	100%	50%	50%		50%	50%	50%	50%	50%	50%	50%	50%	50%	50%					
	Other	1	no consensus																						
	PRA	5	60%	60%	60%	60%	60%	40%	20%	20%	20%	60%	60%	40%	40%	40%	40%	40%	60%	40%	60%	60%	60%	60%	60%
	SAB	24	100%	100%	100%	100%	100%	91%	23%	23%	32%	100%	100%	95%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

1297	method	#labs	B75	A2	A68	B18	B51	B52	B53	B54	B64	B65	B77	A69	B41	B78	B7801	B58	B57	B48	B55	A203	B39	B45
class I	PRA	5	60%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	20%	20%	20%						
	SAB	24	100%	86%	86%	82%	82%	95%	100%	86%	82%	73%	100%	77%	41%	86%	18%	64%	59%	41%	27%	23%	23%	23%

1297	method	#labs	DQ2	DQ7	DQ4	DQ5	DQ9	DQ8	DQA1*03	DQA1*05	DQA1*06	DQA1*02	DQA1*04	DQA1*01	DR51	
class II	NIH-Ext	1	Undetermined													
	Flow	1	no specificities assigned													
	C1q	1	no consensus													
	Other	1	no consensus													
	PRA	4	75%	75%	75%	75%	75%	50%	25%	25%	25%	25%	25%	25%		
	SAB	20	100%	100%	95%	95%	95%	95%	40%	40%	40%	35%	35%	20%	20%	

**Serum 1297.** Strong anti-B8 (22887) reactivity was detected in this sample by all methods, except Flow. In addition, reactivity to A1 (20594), A11 (15837), A23 (14924), A24 (20085), A80 (20197), B56 (12177), B59 (10017), as well as reactivity to a number of 5C specificities was reported by various methods. Allele specific A\*11:01, A\*11:02, A\*24:03 and B\*78:01 reactivity

was also reported by some labs. In addition, Luminex SAB, PRA, and C1q each reported strong anti-DQ2 (22686), -DQ7 (18342), -DQ4 (13780), -DQ5 (13665), -DQ9 (14305), and -DQ8 (14092) reactivity in this sample. Each were reported by > 90% of labs reporting by SAB.

\*(median MFI)

1298	method	#abs	A29	B13	A31	A32	A74	A25	A26	A34	A43	B18	B35	B49	B50	B51	B52	B62	B37	B41	B44	B45
class I	NIH-Std	1	no consensus																			
	NIH-Ext	1	no consensus																			
	AHG	1	no consensus																			
	Flow	1	no specificities assigned																			
	C1q	2	100%	100%																		
	Other	1	no consensus																			
	PRA	5	60%	60%	60%	60%	60%	60%	40%	40%	40%	60%	60%	60%	60%	60%	60%	60%	40%	40%	60%	60%
	SAB	24	100%	100%	86%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	91%	100%	100%	100%	100%	100%

1298	method	#abs	B47	B60	B61	B71	B72	B75	B76	B77	B78	B7801	A3	A30	A33	A68	B38	B39	B3901	B64	B48	B53
	PRA	5	40%	60%	60%	60%	60%	60%	40%	40%	40%		40%	40%	40%	40%	40%	40%	20%	40%	40%	40%
	SAB	24	100%	100%	100%	100%	100%	100%	100%	100%	100%	14%	95%	95%	95%	95%	95%	82%	27%	95%	95%	95%

1298	method	#abs	A66	A6601	A6602	B59	B8	B65	A11	A1101	B7	B703	A36	A69	B67	A80	B54	B56				
	PRA	5	20%	20%	20%	40%	60%	60%	20%	20%	20%		20%									
	SAB	24	91%	23%	23%	91%	86%	82%	77%	23%	18%	23%	14%	82%	36%	32%	18%	14%				

1298	method	#abs	DQ2	DR11	DR7	DR9	DR12	DPw2	DPw3	DPw6	DP18	DP28	DP14	DP17	DR52	
class II	NIH-Ext	1	Undetermined													
	Flow	1	no specificities assigned													
	C1q	1	no consensus													
	Other	1	no consensus													
	PRA	4	75%	75%	75%	75%	25%	50%	50%	50%	50%	50%	25%	25%	25%	
	SAB	22	100%	100%	100%	100%	20%	95%	95%	95%	95%	95%	85%	85%	85%	

1298	method	#abs	DP9	DP10	DP20	DPw4	DP402	DQA1*02	DQA1*05	DPA1*01	DPA1*04	DPA1*02	DR10	DPA1*03	DPw1	DQ4
	PRA	4	25%	25%	25%		25%									
	SAB	22	80%	75%	75%	75%	40%	30%	25%	20%	20%	15%	15%	10%	10%	10%

**Serum 1298.** Strong anti-B13 (18797) reactivity was detected in this sample by all methods, except Flow. In addition, Luminex labs reported strong reactivity to a number of 5C, 7C, 10C, and 12C specificities, including A32 (10203), A25 (8486), B49 (8806), B50 (8616), B76 (8515), B41 (8580), and B44 (8123). Each were reported by 100% of SAB labs.

Class II reactivity was also detected in this sample, with C1q, PRA, and SAB labs reporting strong anti-DR7 (16327) reactivity. Additional reactivity to DQ2 (4583), as well as reactivity to a number of DR and DP antigens, including DR9 (6087), DR11 (3821), DP2 (5184), and DP4 (DP402) (4646) was reported by PRA and SAB.

1299	method	#labs	A32	A25	B13	B38	B49	B50	B51	B52	B53	B62	B63	B72	B71	B75	B77	B78	B7801	B35	B57	B58	B37	B56	
class I	NIH-Std	1	no consensus																						
	NIH-Ext	1	no consensus																						
	AHG	1	no consensus																						
	Flow	1	no specificities assigned																						
	C1q	2	100%	50%	100%	100%	100%	100%	50%	100%	100%	100%	100%	100%	100%	100%	100%	50%		100%	50%	100%	50%	100%	
	Other	1	no consensus																						
	PRA	5	40%	40%	40%	40%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	40%	60%		60%	60%	40%	40%	40%	
	SAB	24	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	95%	100%	100%	91%	18%	95%	100%	100%	95%	100%	
1299	method	#labs	B59	B44	B45	B18	B55	B54	A24	A2403	A23	B41	B46	B47	B60	B61	B76	B64	B65	B48	B39	B3901	Cw10	Cw9	B67
	C1q	2	100%	50%																					
	PRA	5	40%	60%	60%	60%	60%	40%	40%	20%	40%	40%	40%	40%	60%	40%	40%	40%	40%	40%	20%	20%			
	SAB	24	100%	95%	95%	91%	86%	82%	100%	36%	95%	95%	95%	95%	91%	91%	91%	86%	82%	73%	73%	18%	95%	91%	41%
1299	method	#labs	DR11	DR17	DR18	DR3	DR52	DQ7	DQ8	DQ9	DP18	DPw2	DP28	DPw4	DP402	DQA1*03	DP10	DQA1*05	DQA1*06	DPA1*01					
class II	NIH-Ext	1	Undetermined																						
	Flow	1	no specificities assigned																						
	C1q	1	no consensus																						
	Other	1	no consensus																						
	PRA	4	75%	50%	50%	25%	25%	50%	50%	25%	50%	50%	25%		25%										
	SAB	22	100%	100%	100%	5%	100%	80%	75%	65%	55%	50%	25%	10%	5%	25%	20%	20%	20%	15%					

**Serum 1299.** Anti-B21 (B49, 50), -B52, and -B53 reactivity was reported in this sample by various methods. Luminex median MFI values reported for each were 23031, 21544, 17452, and 19323, respectively. Additional reactivity to a number of 5C and 7C specificities, as well as strong anti-A32 (16838), -A25 (15375), -B13 (16850), -B38 (19095), -B37 (12711), -B56 (18793), -B59 (17917), and -B44 (16172) reactivity was reported by C1q, PRA, and SAB. In

addition, SAB labs reported anti-Cw10 (6366) and -Cw9 (5620) reactivity.

Class II reactivity was also detected in this sample with C1q, PRA, and SAB labs reporting strong anti-DR52 (15021) reactivity. Additional reactivity to a number of DR, DQ, and DP specificities was also reported by PRA and SAB, including DR11 (7133), DR17 (6194), and DR18 (5047). Each were assigned by 100% of SAB labs.

1300	method	#labs	A23	A24	A2403	A25	A32	B38	B57	B58	B13	B37	B27	B2705	B49	B51	B52	B53	B63	B77	B44	B59	B47	A80	A1
class I	NIH-Std	1	no consensus																						
	NIH-Ext	1	no consensus																						
	AHG	1	no consensus																						
	Flow	1	no specificities assigned																						
	C1q	2	100%	100%	50%	100%	100%	100%	100%	100%	50%	50%	50%		50%	50%	50%	50%	50%	50%	50%	50%			
	Other	1	no consensus																						
	PRA	5	60%	60%	40%	60%	60%	60%	60%	60%	60%	60%	60%	20%	60%	60%	60%	60%	60%	40%	60%	40%	60%	60%	60%
	SAB	24	100%	100%	36%	100%	100%	100%	100%	100%	100%	100%	95%	23%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

  

1300	method	#labs	A2	A203	A68	A69	B76	Cw2	Cw4	Cw15	Cw17	Cw5	Cw18	B45	Bw4	A43	Cw1	B54	Cw6	Cw14	A34	B61	Cw7	A29	A66	Cw10
	C1q	2						50%																		
	PRA	5	40%		40%	40%	40%	20%	20%	20%	20%	20%	20%	20%	40%											
	SAB	24	100%	23%	100%	100%	100%	82%	77%	68%	64%	64%	59%	55%	36%	45%	45%	41%	41%	36%	27%	23%	23%	18%	14%	14%

  

1300	method	#labs	DR4	DR10	DR9	DR53	DQ7	DR7	DQ8	DQ9	DR1	DR103	DQ5	DQ2	DR51	DR15	DQ6	DR16	DQA1*02	DQ4	DQA1*05	DR52	DQA1*03	DQA1*06	DQA1*01	
class II	NIH-Ext	1	Undetermined																							
	Flow	1	no specificities assigned																							
	C1q	1	no consensus																							
	Other	1	no consensus																							
	PRA	4	75%	50%	50%	25%	50%	25%	25%	25%	25%	25%	25%	50%	25%	25%	25%									
	SAB	22	100%	90%	90%	90%	85%	85%	80%	80%	65%	65%	65%	60%	60%	55%	55%	55%		40%	35%	30%	30%	25%	20%	10%

**Serum 1300.** Strong class I reactivity was detected in this sample by all methods. Antibodies detected by various methods include A23 (21686), A24 (18730), A25 (18885), A32 (20935), B38 (18881), B57 (20084), and B58 (17331). Each were reported by 100% of SAB labs. Additional reactivity to B37 (13866) and B44 (13265), as well as reactivity to a number of 5C and 7C

specificities was reported by C1q, PRA and SAB.

Anti-DR4 (5904) reactivity was also detected in this sample by C1q, PRA, and SAB. Additional reactivity to a number of DR ad DQ specificities was reported by PRA and SAB, including DR10 (2271), DR9 (1776), DR53 (3645), DQ7 (2200), DQ8 (2225), and DQ9 (2468).

**NEXT MAILING DATE: November 4, 2020**

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**Table 21. Summary of the 576<sup>th</sup> Serum Exchange (Serum #1297-1300) by NIH-Standard and NIH-Extended - class I**

Method: NIH-Standard											
<b>*** Serum 1297 ***</b>			<b>*** Serum 1298 ***</b>			<b>*** Serum 1299 ***</b>			<b>*** Serum 1300 ***</b>		
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											
<b>*** Serum 1297 ***</b>			<b>*** Serum 1298 ***</b>			<b>*** Serum 1299 ***</b>			<b>*** Serum 1300 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
Undetermined			no consensus			no consensus			no consensus		

**Table 22. Summary of the 576<sup>th</sup> Serum Exchange (Serum #1297-1300) by Antiglobulin and Flow Cytometry - class I**

Method: Antiglobulin											
<b>*** Serum 1297 ***</b>			<b>*** Serum 1298 ***</b>			<b>*** Serum 1299 ***</b>			<b>*** Serum 1300 ***</b>		
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: Flow Cytometry											
<b>*** Serum 1297 ***</b>			<b>*** Serum 1298 ***</b>			<b>*** Serum 1299 ***</b>			<b>*** Serum 1300 ***</b>		
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 576<sup>th</sup> Serum Exchange (Serum #1297-1300) by C1q and Other - class I**

Method: C1q											
*** Serum 1297 ***			*** Serum 1298 ***			*** Serum 1299 ***			*** Serum 1300 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A1	100%	100%	B13	100%	100%	A32	100%	100%	A23	100%	100%
A23	100%	100%	A29	50%	100%	B13	100%	100%	A24	100%	100%
A24	100%	100%				B35	100%	100%	A25	100%	100%
A80	100%	100%				B38	100%	100%	A32	100%	100%
B8	100%	100%				B49	100%	100%	B38	100%	100%
A11	50%	100%				B50	100%	100%	B57	100%	100%
A1102	50%	100%				B52	100%	100%	B58	100%	100%
A2403	50%	100%				B53	100%	100%	A2403	50%	100%
A3	50%	100%				B56	100%	100%	B13	50%	100%
A36	50%	100%				B58	100%	100%	B27	50%	100%
B46	50%	100%				B59	100%	100%	B37	50%	100%
B49	50%	100%				B62	100%	100%	B44	50%	100%
B50	50%	100%				B63	100%	100%	B49	50%	100%
B56	50%	100%				B71	100%	100%	B51	50%	100%
B59	50%	100%				B72	100%	100%	B52	50%	100%
B62	50%	100%				B75	100%	100%	B53	50%	100%
B76	50%	100%				B77	100%	100%	B59	50%	100%
						A25	50%	100%	B63	50%	100%
						B37	50%	100%	B77	50%	100%
						B44	50%	100%	Cw2	50%	100%
						B51	50%	100%			
						B57	50%	100%			
						B78	50%	100%			

  

Method: Other											
*** Serum 1297 ***			*** Serum 1298 ***			*** Serum 1299 ***			*** Serum 1300 ***		
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 24. Summary of the 576<sup>th</sup> Serum Exchange (Serum #1297-1300) by PRA - class I**

Method: Luminex PRA												
*** Serum 1297 ***			*** Serum 1298 ***			*** Serum 1299 ***			*** Serum 1300 ***			
5 typing Labs			5 typing Labs			5 typing Labs			5 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
A1	60%	100%	A25	60%	100%	B18	60%	100%	A1	60%	100%	
A23	60%	100%	A29	60%	100%	B35	60%	100%	A23	60%	100%	
A24	60%	100%	A31	60%	100%	B44	60%	100%	A24	60%	100%	
A3	60%	100%	A32	60%	100%	B45	60%	100%	A25	60%	100%	
A36	60%	100%	A74	60%	100%	B49	60%	100%	A32	60%	100%	
A80	60%	100%	B13	60%	100%	B50	60%	100%	A80	60%	100%	
B35	60%	100%	B18	60%	100%	B51	60%	100%	B13	60%	100%	
B62	60%	100%	B35	60%	100%	B52	60%	100%	B27	60%	100%	
B63	60%	100%	B44	60%	100%	B53	60%	100%	B37	60%	100%	
B71	60%	100%	B45	60%	100%	B55	60%	100%	B38	60%	100%	
B72	60%	100%	B49	60%	100%	B57	60%	100%	B44	60%	100%	
B75	60%	100%	B50	60%	100%	B60	60%	100%	B47	60%	100%	
B8	60%	100%	B51	60%	100%	B62	60%	100%	B49	60%	100%	
A11	40%	100%	B52	60%	100%	B63	60%	100%	B51	60%	100%	
A2	40%	100%	B60	60%	100%	B71	60%	100%	B52	60%	100%	
A68	40%	100%	B61	60%	100%	B72	60%	100%	B53	60%	100%	
B18	40%	100%	B62	60%	100%	B75	60%	100%	B57	60%	100%	
B46	40%	100%	B65	60%	100%	B78	60%	100%	B58	60%	100%	
B49	40%	100%	B71	60%	100%	A23	40%	100%	B63	60%	100%	
B50	40%	100%	B72	60%	100%	A24	40%	100%	A2	40%	100%	
B51	40%	100%	B75	60%	100%	A25	40%	100%	A68	40%	100%	
B52	40%	100%	B8	60%	100%	A32	40%	100%	A69	40%	100%	
B53	40%	100%	A26	40%	100%	B13	40%	100%	B59	40%	100%	
B54	40%	100%	A3	40%	100%	B37	40%	100%	B76	40%	100%	
B56	40%	100%	A30	40%	100%	B38	40%	100%	B77	40%	100%	
B59	40%	100%	A33	40%	100%	B41	40%	100%	Bw4	40%	100%	
B64	40%	100%	A34	40%	100%	B46	40%	100%	A2403	20%	100%	
B65	40%	100%	A43	40%	100%	B47	40%	100%	B2705	20%	100%	
B76	40%	100%	A68	40%	100%	B48	40%	100%	B45	20%	100%	
B77	40%	100%	B37	40%	100%	B54	40%	100%	Cw15	20%	100%	
A1101	20%	100%	B38	40%	100%	B56	40%	100%	Cw17	20%	100%	
A1102	20%	100%	B39	40%	100%	B58	40%	100%	Cw18	20%	100%	
A2403	20%	100%	B41	40%	100%	B59	40%	100%	Cw2	20%	100%	
A69	20%	100%	B47	40%	100%	B61	40%	100%	Cw4	20%	100%	
B41	20%	100%	B48	40%	100%	B64	40%	100%	Cw5	20%	100%	

**Table 25. Summary of the 576<sup>th</sup> Serum Exchange (Serum #1297-1300) by Single Antigen - class I**

Method: Luminex - SAB											
*** Serum 1297 ***			*** Serum 1298 ***			*** Serum 1299 ***			*** Serum 1300 ***		
22 typing Labs			22 typing Labs			22 typing Labs			22 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A1	100%	100%	A25	100%	100%	A24	100%	100%	A1	100%	100%
A23	100%	100%	A26	100%	100%	A25	100%	100%	A2	100%	100%
A24	100%	100%	A29	100%	100%	A32	100%	100%	A23	100%	100%
A3	100%	100%	A32	100%	100%	B13	100%	100%	A24	100%	100%
A36	100%	100%	A34	100%	100%	B38	100%	100%	A25	100%	100%
A80	100%	100%	A43	100%	100%	B49	100%	100%	A32	100%	100%
B35	100%	100%	A74	100%	100%	B50	100%	100%	A68	100%	100%
B49	100%	100%	B13	100%	100%	B51	100%	100%	A69	100%	100%
B50	100%	100%	B18	100%	100%	B52	100%	100%	A80	100%	100%
B53	100%	100%	B35	100%	100%	B53	100%	100%	B13	100%	100%
B56	100%	100%	B37	100%	100%	B56	100%	100%	B37	100%	100%
B59	100%	100%	B41	100%	100%	B57	100%	100%	B38	100%	100%
B62	100%	100%	B44	100%	100%	B58	100%	100%	B44	100%	100%
B71	100%	100%	B45	100%	100%	B59	100%	100%	B47	100%	100%
B72	100%	100%	B47	100%	100%	B62	100%	100%	B49	100%	100%
B75	100%	100%	B49	100%	100%	B63	100%	100%	B51	100%	100%
B76	100%	100%	B50	100%	100%	B72	100%	100%	B52	100%	100%
B77	100%	100%	B51	100%	100%	B75	100%	100%	B53	100%	100%
B8	100%	100%	B60	100%	100%	B77	100%	100%	B57	100%	100%
B63	100%	75%	B61	100%	100%	A23	95%	100%	B58	100%	100%
B46	95%	100%	B62	100%	100%	B35	95%	100%	B59	100%	100%
B52	95%	100%	B71	100%	100%	B37	95%	100%	B63	100%	100%
A11	91%	100%	B72	100%	100%	B41	95%	100%	B76	100%	100%
B54	86%	100%	B75	100%	100%	B44	95%	100%	B77	100%	100%
B78	86%	100%	B76	100%	100%	B45	95%	100%	B27	95%	80%
A2	86%	89%	B77	100%	100%	B46	95%	100%	Cw2	82%	100%
A68	86%	71%	B78	100%	100%	B47	95%	100%	Cw4	77%	100%
B51	82%	100%	A3	95%	100%	B71	95%	100%	Cw15	68%	100%
B18	82%	80%	A30	95%	100%	Cw10	95%	100%	Cw17	64%	100%
B64	82%	75%	A33	95%	100%	B60	91%	100%	Cw5	64%	100%
A69	77%	67%	A68	95%	100%	B61	91%	100%	Cw18	59%	100%
B65	73%	100%	B38	95%	100%	B76	91%	100%	B45	55%	100%
B58	64%	100%	B48	95%	100%	B78	91%	100%	A43	45%	100%
B57	59%	100%	B53	95%	100%	Cw9	91%	100%	Cw1	45%	100%
B41	41%	100%	B64	95%	100%	B18	91%	80%	B54	41%	100%

**Table 25. Summary of the 576<sup>th</sup> Serum Exchange (Serum #1297-1300) by Single Antigen - class I**

Method: Luminex - SAB, cont.											
*** Serum 1297 ***			*** Serum 1298 ***			*** Serum 1299 ***			*** Serum 1300 ***		
22 typing Labs			22 typing Labs			22 typing Labs			22 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B48	41%	100%	A66	91%	100%	B55	86%	100%	Cw6	41%	100%
A2403	32%	100%	B52	91%	100%	B64	86%	100%	A2403	36%	100%
B55	27%	100%	B59	91%	100%	B54	82%	100%	Bw4	36%	100%
A1101	23%	100%	A31	86%	100%	B65	82%	100%	Cw14	36%	100%
A1102	23%	100%	B8	86%	100%	B48	73%	100%	A34	27%	50%
A203	23%	100%	A69	82%	100%	B39	73%	67%	A203	23%	100%
B39	23%	100%	B39	82%	100%	B67	41%	100%	B2705	23%	100%
B45	23%	100%	B65	82%	100%	A2403	36%	100%	B61	23%	100%
B7801	18%	100%	A11	77%	100%	B3901	18%	100%	Cw7	23%	100%
A2C	9%	100%	B67	36%	100%	B7801	18%	100%	A29	18%	50%
B60	9%	100%	A80	32%	100%	B42	14%	100%	A66	14%	100%
A10C	5%	100%	B3901	27%	100%	Bw4	14%	97%	Cw10	14%	100%
A1C	5%	100%	A1101	23%	100%	A29	9%	100%	A26	9%	100%
B12C	5%	100%	A6601	23%	100%	B12C	9%	100%	A2C	9%	100%
B15	5%	100%	A6602	23%	100%	B5C	9%	100%	B2708	9%	100%
B42	5%	100%	B703	23%	100%	A10C	5%	100%	B82	9%	100%
B5C	5%	100%	B54	18%	100%	A1C	5%	100%	Cw9	9%	100%
B61	5%	100%	B7	18%	100%	A2C	5%	100%	A10C	5%	100%
B7C	5%	100%	A36	14%	100%	B15	5%	100%	A1C	5%	100%
B8C	5%	100%	B56	14%	100%	B7C	5%	100%	A6601	5%	100%
Bw4	5%	100%	B7801	14%	100%	B8C	5%	100%	A6602	5%	100%
Bw6	5%	100%	A10C	9%	100%	Bw6	5%	100%	B12C	5%	100%
A29	5%	50%	A1C	9%	100%				B15	5%	100%
			B55	9%	100%				B5C	5%	100%
			B81	9%	100%				B60	5%	100%
			B82	9%	100%				B7C	5%	100%
			A1	5%	100%				B8C	5%	100%
			A1102	5%	100%				Bw6	5%	100%
			A2C	5%	100%				Cw403	5%	100%
			B12C	5%	100%						
			B14	5%	100%						
			B15	5%	100%						
			B40	5%	100%						
			B42	5%	100%						
			B5C	5%	100%						

**Table 26. Summary of the 576<sup>th</sup> Serum Exchange (Serum #1297-1300) by NIH-Extended and Flow Cytometry - class II**

Method: NIH-Extended												
<b>*** Serum 1297 ***</b>			<b>*** Serum 1298 ***</b>			<b>*** Serum 1299 ***</b>			<b>*** Serum 1300 ***</b>			
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
Undetermined			Undetermined			Undetermined			Undetermined			
Method: Flow Cytometry												
<b>*** Serum 1297 ***</b>			<b>*** Serum 1298 ***</b>			<b>*** Serum 1299 ***</b>			<b>*** Serum 1300 ***</b>			
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 576<sup>th</sup> Serum Exchange (Serum #1297-1300) by C1q and Other - class II**

Method: C1q											
<b>*** Serum 1297 ***</b>			<b>*** Serum 1298 ***</b>			<b>*** Serum 1299 ***</b>			<b>*** Serum 1300 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

Method: Other											
<b>*** Serum 1297 ***</b>			<b>*** Serum 1298 ***</b>			<b>*** Serum 1299 ***</b>			<b>*** Serum 1300 ***</b>		
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 28. Summary of the 576<sup>th</sup> Serum Exchange (Serum #1297-1300) by PRA - class II**

Method: Luminex-PRA											
*** Serum 1297 ***			*** Serum 1298 ***			*** Serum 1299 ***			*** Serum 1300 ***		
4 typing Labs			4 typing Labs			4 typing Labs			4 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ2	75%	100%	DQ2	75%	100%	DR11	75%	100%	DR4	75%	100%
DQ4	75%	100%	DR11	75%	100%	DP18	50%	100%	DQ2	50%	100%
DQ5	75%	100%	DR7	75%	100%	DPw2	50%	100%	DQ7	50%	100%
DQ7	75%	100%	DR9	75%	100%	DQ7	50%	100%	DR10	50%	100%
DQ9	75%	100%	DP18	50%	100%	DQ8	50%	100%	DR9	50%	100%
DQ8	50%	100%	DP28	50%	100%	DR17	50%	100%	DQ5	25%	100%
DQA1*01	25%	100%	DPw2	50%	100%	DR18	50%	100%	DQ6	25%	100%
DQA1*02	25%	100%	DPw3	50%	100%	DP28	25%	100%	DQ8	25%	100%
DQA1*03	25%	100%	DPw6	50%	100%	DP402	25%	100%	DQ9	25%	100%
DQA1*04	25%	100%	DP10	25%	100%	DQ9	25%	100%	DR1	25%	100%
DQA1*05	25%	100%	DP14	25%	100%	DR3	25%	100%	DR103	25%	100%
DQA1*06	25%	100%	DP17	25%	100%	DR52	25%	100%	DR15	25%	100%
			DP20	25%	100%				DR16	25%	100%
			DP402	25%	100%				DR51	25%	100%
			DP9	25%	100%				DR53	25%	100%
			DR12	25%	100%				DR7	25%	100%
			DR52	25%	100%						

**Table 29. Summary of the 576<sup>th</sup> Serum Exchange (Serum #1297-1300) by Single Antigen - class II**

Method: Luminex - SAB											
*** Serum 1297 ***			*** Serum 1298 ***			*** Serum 1299 ***			*** Serum 1300 ***		
20 typing Labs			20 typing Labs			20 typing Labs			20 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ2	100%	100%	DQ2	100%	100%	DR11	100%	100%	DR4	100%	100%
DQ7	100%	100%	DR11	100%	100%	DR17	100%	100%	DR10	90%	100%
DQ4	95%	100%	DR7	100%	100%	DR18	100%	100%	DR9	90%	86%
DQ5	95%	100%	DR9	100%	100%	DR52	100%	96%	DR53	90%	71%
DQ8	95%	100%	DP18	95%	100%	DQ7	80%	82%	DQ7	85%	71%
DQ9	95%	100%	DP28	95%	100%	DQ8	75%	67%	DR7	85%	29%
DQA1*03	40%	100%	DPw2	95%	100%	DQ9	65%	83%	DQ8	80%	100%
DQA1*05	40%	100%	DPw3	95%	100%	DP18	55%	100%	DQ9	80%	67%
DQA1*06	40%	100%	DPw6	95%	100%	DPw2	50%	100%	DR1	65%	100%
DQA1*02	35%	100%	DP14	85%	100%	DP28	25%	100%	DR103	65%	100%
DQA1*04	35%	100%	DP17	85%	100%	DQA1*03	25%	100%	DQ5	65%	35%
DQA1*01	20%	100%	DR52	85%	100%	DP10	20%	100%	DQ2	60%	80%
DR51	20%	100%	DP9	80%	100%	DQA1*05	20%	100%	DR51	60%	50%
DP10	5%	100%	DP10	75%	100%	DQA1*06	20%	100%	DR15	55%	100%
DP14	5%	100%	DP20	75%	100%	DPA1*01	15%	100%	DQ6	55%	50%
DP17	5%	100%	DPw4	75%	50%	DPw4	10%	100%	DR16	55%	50%
DP18	5%	100%	DP402	40%	100%	DP402	5%	100%	DQA1*02	40%	100%
DP20	5%	100%	DQA1*02	30%	100%	DR3	5%	100%	DQ4	35%	75%
DP28	5%	100%	DQA1*05	25%	100%				DQA1*05	30%	100%
DP9	5%	100%	DPA1*01	20%	100%				DR52	30%	100%
DPA1*01	5%	100%	DPA1*04	20%	100%				DQA1*03	25%	100%
DPA1*04	5%	100%	DR12	20%	100%				DQA1*06	20%	100%
DPw2	5%	100%	DPA1*02	15%	100%				DQA1*01	10%	100%
DPw3	5%	100%	DR10	15%	100%				DP15	5%	100%
DPw4	5%	100%	DPA1*03	10%	100%				DP19	5%	100%
DPw6	5%	100%	DPw1	10%	50%				DQA1*04	5%	100%
DQ3	5%	100%	DQ4	10%	50%						
DQ6	5%	100%	DQA1*03	5%	100%						
DR11	5%	100%	DQA1*04	5%	100%						
DR12	5%	100%	DR13	5%	100%						
DR17	5%	100%	DQ8	5%	33%						
DR52	5%	100%	DQ9	5%	33%						
DR7	5%	100%	DQ7	5%	20%						
DR9	5%	100%									



**Table 30. Individual laboratory results for Serum #1297- #1300 by NIH-Standard and NIH-Extended - class I**

**** Serum 1297 ****				**** Serum 1298 ****			**** Serum 1299 ****				**** Serum 1300 ****						Method		
Ctr	% POS	B8	Other	% POS	B13	Other	% POS	B21	B5	B53	Other	% POS	A9	B17					Other
786		+			+			+	+	+			+	+					STD

STD = NIH-standard

**** Serum 1297 ****				**** Serum 1298 ****			**** Serum 1299 ****				**** Serum 1300 ****						Method		
Ctr	% POS		Other	% POS	B13	Other	% POS	B52			Other	% POS	A23	A24	B27	B38		B49	Other
3753	9			7	+		12	+				40	+	+	+	+	+		EXT

EXT - NIH-Extended

**Table 31. Individual laboratory results for Serum #1297- #1300 by Antiglobulin and Flow Cytometry - class I**

		**** Serum 1297 ****					**** Serum 1298 ****			**** Serum 1299 ****				**** Serum 1300 ****										
Ctr	%	POS	A1	A9	B8	Other	%	POS	B13	Other	%	POS	B49	B52	B53	Other	%	POS	A23	A24	B57	B58	Other	Method
786			+	+	+				+				+	+	+				+	+	+	+		Antiglobulin

		**** Serum 1297 ****					**** Serum 1298 ****			**** Serum 1299 ****				**** Serum 1300 ****										
Ctr	%	POS				Other	%	POS		Other	%	POS				Other	%	POS					Other	Method
5214	96						99				95						95							FC

FC = Flow Cytometry

**Table 32. Individual laboratory results for Serum #1297- #1300 by C1q - class I**

**** Serum 1297 ****																	**** Serum 1298 ****													
Ctr	% POS	A1	A23	A24	A80	B8	A11	A1102	A2403	A3	A36	B46	B49	B50	B56	B59	B62	B76	Other	% POS	B13	A29						Other	Method	
786		+	+	+	+	+	+	+	+													+								C1q
2400		+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+		+	+								C1q

**** Serum 1299 ****																	**** Serum 1300 ****													
Ctr	% POS	A32	B13	B35	B38	B49	B50	B52	B53	B56	B58	B59	B62	B63	B71	B72	B75	B77	Other	% POS	A23	A24	A25	A32	B38	B57	B58	Other	Method	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	A2403	C1q
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B44,B51,A25 >		+	+	+	+	+	+	+	B49,B13,B44,B27 >	C1q	



**Table 34. Individual laboratory results for Serum #1297- #1300 by PRA - class I**

**** Serum 1297 ****																																					
Ctr	% POS	A1	A23	A24	A3	A36	A80	B35	B62	B63	B71	B72	B75	B8	A11	A2	A68	B18	B46	B49	B50	B51	B52	B53	B54	B56	B59	B64	B65	B76	B77	A1101	A1102	A2403	Other	Method	
731	43	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A69,B58,B41,B7801	LMX-PRA
2400	93																																				LMX-PRA
3753	86	+	+	+	+	+	+	+	+	+	+	+	+	+	+																						LMX-PRA
8043	88																																				LMX-PRA
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78	LMX-PRA

**** Serum 1298 ****																																						
Ctr	% POS	A25	A29	A31	A32	A74	B13	B18	B35	B44	B45	B49	B50	B51	B52	B60	B61	B62	B65	B71	B72	B75	B8	A26	A3	A30	A33	A34	A43	A68	B37	B38	B39	B41	B47	Other	Method	
731	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B48,B78,B53,B82 >	LMX-PRA
2400	96																																					LMX-PRA
3753	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											+			LMX-PRA	
8043	NT																																				LMX-PRA	
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B48,A66,B78 >	LMX-PRA

**** Serum 1299 ****																																						
Ctr	% POS	B18	B35	B44	B45	B49	B50	B51	B52	B53	B55	B57	B60	B62	B63	B71	B72	B75	B78	A23	A24	A25	A32	B13	B37	B38	B41	B46	B47	B48	B54	B56	B58	B59	B61	Other	Method	
731	47	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,A1,B64,B65 >	LMX-PRA
2400	96																																					LMX-PRA
3753	92	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																			LMX-PRA
8043	NT																																					LMX-PRA
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B64,B65,B76,B77 >	LMX-PRA

**** Serum 1300 ****																																						
Ctr	% POS	A1	A23	A24	A25	A32	A80	B13	B27	B37	B38	B44	B47	B49	B51	B52	B53	B57	B58	B63	A2	A68	A69	B59	B76	B77	Bw4	A2403	B2705	B45	Cw15	Cw17	Other	Method				
731	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX-PRA	
2400	86																																				LMX-PRA	
3753	82	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX-PRA	
8043	NT																																				LMX-PRA	
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw2,Cw5,Cw18	LMX-PRA



**Table 36. Individual laboratory results for Serum #1298 by Single Antigen - class I**

		**** Serum 1298 ****																																																									
Ctrl	% POS	A25	A26	A29	A32	A34	A43	A74	B13	B18	B35	B37	B41	B44	B45	B47	B49	B50	B51	B60	B61	B62	B71	B72	B75	B76	B77	B78	A3	A30	A33	A68	B38	B48	B53	B64	A66	B52	B59	A31	B8	A69	B39	B65	A11	B67	A80												
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
774	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
3766	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
3808	48	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
3966	61	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
6649	57	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8103	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8121		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Table 36. Individual laboratory results for Serum #1298 by Single Antigen - class I, cont.**

**** Serum 1298 ****							
Ctr	B3901	A1101	A6601	A6602	B703	Other	Method
615						B7,B54,B56,B81	LMX-SAB
725					+		LMX-SAB
774							LMX-SAB
786	+	+	+	+		A1102	LMX-SAB
910							LMX-SAB
1647							LMX-SAB
2400							LMX-SAB
3753							LMX-SAB
3766	+	+	+	+		B7801	LMX-SAB
3808	+		+	+	+		LMX-SAB
3966						A36	LMX-SAB
4322						B82,B7,B54,B55 >	LMX-SAB
5214							LMX-SAB
5462	+	+	+	+		B7801	LMX-SAB
6649							LMX-SAB
8082		+					LMX-SAB
8086						B54,B55,B56	LMX-SAB
8090						B7,B54	LMX-SAB
8098	+				+	Bw4,Bw6,B12C,B5C>	LMX-SAB
8100						A1C,A10C	LMX-SAB
8103		+	+	+	+	B40,B15,B7,B14 >	LMX-SAB
8121	+				+	B82,A36	LMX-SAB





**Table 38. Individual laboratory results for Serum #1300 by Single Antigen - class I**

**** Serum 1300 ****																																																					
Ctr	% POS	A1	A2	A23	A24	A25	A32	A68	A69	A80	B13	B37	B38	B44	B47	B49	B51	B52	B53	B57	B58	B59	B63	B76	B77	B27	Cw2	Cw4	Cw15	Cw17	Cw5	Cw18	B45	A43	Cw1	B54	Cw6	A2403	Bw4	Cw14	A34	A203	B2705	Other	Method								
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A66,A29,Cw10, A*34:01, C*03:04, B*40:06, A*66:02, A*29:02>	LMX-SAB							
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB					
774	86	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB				
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB			
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61		LMX-SAB				
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB				
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB			
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB		
3766	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB		
3808	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB		
3966	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB	
6649	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB	
8086	200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB	
8103	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB	
8121		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB

**Table 39. Individual laboratory results for Serum #1297 - 1300 by NIH-Extended and Flow Cytometry - class II**

	**** Serum 1297 ****						**** Serum 1298 ****			**** Serum 1299 ****			**** Serum 1300 ****			
Ctr	% POS					Other	% POS		Other	% POS		Other	% POS		Other	Method
3753	19						18			34			24			EXT

EXT = NIH-Extended

	**** Serum 1297 ****						**** Serum 1298 ****			**** Serum 1299 ****			**** Serum 1300 ****			
Ctr	% POS					Other	% POS		Other	% POS		Other	% POS		Other	Method
5214	93						95			70			73			FC

FC = Flow Cytometry

**Table 40. Individual laboratory results for Serum #1297 - 1300 by C1q and Other- class II**

	**** Serum 1297 ****										**** Serum 1298 ****										**** Serum 1299 ****					**** Serum 1300 ****			
Ctr	% POS	DQ2	DQ4	DQ5	DQ7	DQ8	DQ9				Other	% POS	DR7								Other	% POS	DR52			Other	% POS	Other	Method
2400		+	+	+	+	+	+						+										+					NT	C1q

	**** Serum 1297 ****										**** Serum 1298 ****										**** Serum 1299 ****					**** Serum 1300 ****													
Ctr	% POS	DQ2	DQ4	DQ5	DQ7	DQ8	DQ9	DQA1*01	DQA1*02	DQA1*03	DQA1*04	DQA1*05	DQA1*06	Other	% POS	DR7	DP14	DP17	DP18	DP28	DP9	DPw2	DPw3	DPw4	DPw6	DQ2	DR11	DR9	Other	% POS	DR52	DR11	DR17	DR18	Other	% POS	DR4	Other	Method
8043	93	+	+	+	+	+	+	+	+	+	+	+		21	+	+	+	+	+	+	+	+	+	+	+	+	+		9	+	+	+	+		5	+		Other	

**Table 41. Individual laboratory results for Serum #1297 - 1300 by PRA - class II**

**** Serum 1297 ****													**** Serum 1298 ****																					
Ctr	% POS	DQ2	DQ4	DQ5	DQ7	DQ9	DQ8	DQA1*01	DQA1*02	DQA1*03	DQA1*04	DQA1*05	DQA1*06	Other	% POS	DQ2	DR11	DR7	DR9	DP18	DP28	DPw2	DPw3	DPw6	DP10	DP14	DP17	DP20	DP402	DP9	DR12	DR52	Other	Method
731	27	+	+	+	+	+	+	+	+	+	+	+	+		23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX-PRA
3753	87	+	+	+	+	+									40	+	+	+	+															LMX-PRA
2400	94														71																			LMX-PRA
8112		+	+	+	+	+										+	+	+	+	+	+	+	+	+			+							LMX-PRA

**** Serum 1299 ****													**** Serum 1300 ****																						
Ctr	% POS	DR11	DP18	DPw2	DQ7	DQ8	DR17	DR18	DP28	DP402	DQ9	DR3	DR52	Other	% POS	DR4	DQ2	DQ7	DR10	DR9	DQ5	DQ6	DQ8	DQ9	DR1	DR103	DR15	DR16	DR51	DR53	DR7	Other	Method		
731	22	+	+	+	+	+				+		+			8	+	+		DR10	DR9														LMX-PRA	
3753	53	+					+	+							57	+		+	+	+															LMX-PRA
2400	71														29																				LMX-PRA
8112		+	+	+	+	+	+	+	+		+		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-PRA

**Table 42. Individual laboratory results for Serum #1297-1298 by Single Antigen - class II**

Ctr	**** Serum 1297 ****														**** Serum 1298 ****														Method								
	% POS	DQ2	DQ7	DQ4	DQ5	DQ8	DQ9	DQA1*03	DQA1*05	DQA1*06	DQA1*02	DQA1*04	Other	% POS	DQ2	DR11	DR7	DR9	DP18	DP28	DPW2	DPW3	DPW6	DPI4	DPI7	DR52	DP9	DP10		DP20	DPW4	DP402	DQA1*02	DQA1*05	Other		
615		+	+	+	+	+	+																												DRB3*03:01	LMX-SAB	
774	94	+	+	+	+	+	+							80	+	+	+	+																		LMX-SAB	
910		+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					DRB3*03:01	LMX-SAB		
1647		+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+				LMX-SAB		
2400		+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX-SAB		
3753		+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX-SAB		
3766	87	+	+	+	+	+	+	+	+	+	+	+		65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB		
3808	27	+	+	+	+	+	+	+	+	+	+	+	DR51	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX-SAB		
3966	23	+	+	+	+	+	+	+	+	+	+	+		37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR10,DPA1*01,DPA1*02,DPA1*04	LMX-SAB	
4322		+	+	+	+	+	+	+	+	+	+	+	DR17,DQA1*01		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR10,DR12,DR13,DQ4 >	LMX-SAB	
5214		+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					DRB3*03:01	LMX-SAB		
5462		+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX-SAB	
6649	23	+	+	+	+	+	+							31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPA1*04	LMX-SAB	
8082		+	+	+	+	+	+	+	+	+	+	+	DR7,DR9,DR11,DR12>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR12,DPA1*01,DPA1*04	LMX-SAB
8086	200	+	+	+	+	+	+							200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR10,DR12,DQ4,DQ7 >	LMX-SAB
8090		+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DRB3*03:01, DPB1*04:02	LMX-SAB	
8098		+	+	+	+	+	+	+	+	+	+	+	DR51,DQA1*01		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
8100		+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX-SAB	
8103	24	+	+	+	+	+	+	+	+	+	+	+	DR51,DQ3,DQ6,DQA1*01	19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPA1*01,DPA1*02,DPA1*03>	LMX-SAB	
8121		+	+	+	+	+	+	+	+	+	+	+	DR51,DQA1*01		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR12	LMX-SAB

**Table 43. Individual laboratory results for Serum #1299-1300 by Single Antigen - class II**

**** Serum 1299 ****															**** Serum 1300 ****																										
Ctr	% POS	DR11	DR17	DR18	DR52	DQ7	DQ8	DQ9	DP18	DPW2	DP28	DQA1*03	Other	% POS	DR4	DR10	DR9	DR53	DQ7	DR7	DQ8	DQ9	DR1	DR103	DQ5	DQ2	DR51	DR15	DQ6	DR16	DQA1*02	DQ4	DQA1*05	DR52	DQA1*03	Other	Method				
615		+	+	+	+	+	+	+	+	+	+		DPw4,DP10,DP402		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DQA1*04, DQA1*06, DQB1*05:02,DQB1*06:02, DQB1*06:04,DQB1*02:02,DRB3*02:02,DRB3*01:01,DQB1*04:02	LMX-SAB				
774	69	+	+	+	+	+	+	+						37	+	+	+	+	+	+	+	+			+														LMX-SAB		
910		+	+	+	+	+	+	+							+	+	+	+	+	+		+	+	+	+										DRB5*0202, DQA1*02:01, DQA1*03:01, DQA1*05:01	LMX-SAB					
1647		+	+	+	+	+	+	+	+	+	+		DP10		+	+	+	+	+	+	+	+	+	+	+	+		+										LMX-SAB			
2400		+	+	+	+	+									+	+	+	+	+	+	+	+			+	+		+										LMX-SAB			
3753		+	+	+	+	+	+	+							+	+	+	+	+	+	+	+	+	+	+												DQB1*05:02, DQB1*06:02, DQB1*06:04	LMX-SAB			
3766	82	+	+	+	+	+	+	+	+	+	+	+	DQA1*05,DQA1*06	91	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+			LMX-SAB		
3808	9	+	+	+	+									8	+											+												DQA1*06	LMX-SAB		
3966	12	+	+	+	+	+	+	+	+	+	+	+	DP10,DPA1*01,DQA1*05, DQA1*06	44	+	+	+	+	+	+	+	+	+	+			+	+		+	+		+	+	+	+			DQA1*01,DQA1*06	LMX-SAB	
4322		+	+	+	+	+	+	+	+	+	+	+	DPw4,DP10,DPA1*01, DQA1*05>		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DQA1*01,DQA1*06	LMX-SAB
5214		+	+	+	+	+	+	+	+	+	+		DPA1*01:03/DP28, DPA1*01:05/DP28, DP10, DP*04:02		+	+	+	+	+	+	+	+	+	+															DQB1*05:02, DQA1*02:01, DRB3*01:01, DRB3*02:02	LMX-SAB	
5462		+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DQB1*05:02, DQB1*06:02, DQB1*06:04	LMX-SAB
6649	21	+	+	+	+	+	+	+	+	+	+			52	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DP15,DP19	LMX-SAB
8082		+	+	+	+	+	+	+	+	+	+	+	DPA1*01,DQA1*05,DQA1*06		+																										LMX-SAB
8086	200	+	+	+	+	+	+							200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB
8090		+	+	+	+	+	+		+	+		+			+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+									DRB3*01:01, DRB3*0202, DQB1*05:02, DQB1*06:02, DQB1*06:04	LMX-SAB
8098		+	+	+	+										+	+	+	+	+	+	+	+	+	+		+															LMX-SAB
8100		+	+	+	+	+	+	+	+						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB
8103	9	+	+	+	+								DR3	7	+	+	+	+								+						+	+	+	+	+				LMX-SAB	
8121		+	+	+	+										+	+	+	+	+	+	+	+	+	+	+	+	+													LMX-SAB	