

# REPORT OF THE 408<sup>th</sup> CELL EXCHANGE

## FEBRUARY 6, 2019

B-cell Lines	557-558
Cells	1629-1632
Sera	1257-1264

### B-cell Line Exchange #279

The results for B-cell Line Exchange #279 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We wish to express our appreciation to **Welsh Blood Service, Pontyclun Wales** for its generosity in providing us with the valuable reference cells studied in this Exchange.

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

**Ter-557.** The consensus type for this cell from a Caucasian donor is DRB1\*03:01-DRB1\*04:04-DRB3\*01:01-DRB4\*01:03-DQA1\*03:01-DQA1\*05:01-DQB1\*02:01-DQB1\*03:02-DPA1\*01:03-DPB1\*02:01/A\*01:01-A\*03:01-B\*08:01-B\*40:31-C\*03:04-C\*07:01. This cell is 33692, the reference cell for B\*40:31 (1). From family and exchange study data, one haplotype present in this cell is shown to be A\*03:01-B\*40:31-C\*03:04-DRB1\*04:04-DRB4\*01:03-DQA1\*03:01-DQB1\*03:02. The other haplotype present A\*01:01-B\*08:01-C\*07:01-DRB1\*03:01-DQB1\*02:01, is the most common haplotype observed in Caucasians, with HF = 0.07408.

The cell was previously studied in the class I DNA Extract Exchange as extracts 553 (2012) and 374 (2006). We congratulate Chen on correctly identifying this cell as being previously examined.

In this present retyping, the rare B\*40:31 allele was assigned in complete consensus by labs reporting at high resolution. This was an improvement from the 2012 study in which B\*40:31 was assigned by only 58%. B\*08:01 (100%) was assigned as the second B-locus allele, with 6 labs assigning B\*08:01:01. DRB1\*03:01 (100%) and DRB1\*04:04 (100%) were the reported DRB1 types, with 8 labs assigning DRB1\*03:01:01 and 9 labs assigning DRB1\*04:04:01.

**Ter-558.** The consensus type for this sample from a Caucasian donor is DRB1\*11:01-DRB1\*13:02-DRB3\*02:02-DRB3\*03:01-DQA1\*01:02-DQA1\*05:05-DQB1\*03:01-DQB1\*06:04-DPA1\*01:03-DPB1\*02:01-DPB1\*03:01/A\*02:01-A\*23:01-B\*40:14-B\*44:03-C\*03:04-C\*04:01. One likely haplotype present in this cell is A\*23:01-B\*44:03-C\*04:01-DRB1\*11:01-DQB1\*03:01, with HF = 0.00045, in Caucasians. The other likely haplotype present may then be A\*02:01-B\*40:14-C\*03:04-DRB1\*13:02-DQB1\*06:04. The association of DRB1\*13:02-DQB1\*06:04 in this cell is commonly observed in Caucasians, with HF = 0.03208.

This cell is 1169540, the reference cell for B\*40:14:03. It was previously studied in the class I DNA Extract Exchange as extracts 554 and 374, as astutely noted by Chen.

In this present study, B\*40:14 was assigned by 95% , with 8 labs (6 NGS and 2 SBT) assigning B\*40:14:03. B\*44:03 (100%) was reported as the second B-locus allele, with 6 labs reporting B\*44:03:01. For class II, DRB1\*11:01 and DR1\*13:02 were each assigned by 100% of labs reporting at high resolution. DRB1\*11:01:01 was reported by 8 labs, and DRB1\*13:02:01 was assigned by 10 labs.

#### References:

1. Street J, Downing J, Hammond L, et al. Immunogenetics of two new HLA alleles: A\*0108 and B\*4031. Tissue Antigens 2003;61:322-324.

**Table 1: Summary of the 279<sup>th</sup> B-cell Line Exchange**

**Ter-557**

Ter-557												
<b>DNA Typing - class II</b>	<b>33 labs High; 31 labs low-DRB1</b>	%(n)	<b>18 labs High; 22 labs Low-DRB3/4/5</b>	%(n)	<b>22 labs High; 27 labs Low-DQA1</b>	%(n)	<b>32 High Labs; 29 labs Low-DQB1</b>	%(n)	<b>16 High Labs; 14 labs Low-DPA1</b>	%(n)	<b>26 High Labs; 17 labs Low-DPB1</b>	%(n)
	DRB1*03:01:01:01	6 (2)	DRB3*01:01:02:01	11(2)	DQA1*03:01:01	23(5)	DQB1*02:01:01	25(8)	DPA1*01:03:01:01	19(3)	DPB1*02:01:02	23(6)
	DRB1*03:01:01	18(6)	DRB3*01:01:02	11(2)	DQA1*03:01	77(17)	DQB1*02:01	75(24)	DPA1*01:03:01	6 (1)	DPB1*02:01:02G	8 (2)
	DRB1*03:01:01G	3 (1)	DRB3*01:01P	6 (1)	DQA1*03	100(27)	DQB1*02	100(29)	DPA1*01:03P	6 (1)	DPB1*02:01	69(18)
	DRB1*03:01	73(24)	DRB3*01:01	72(13)					DPA1*01:03	69(11)]	DPB1*02(DP201)	65(11)
	DRB1*03(DR17)	3 (1)	DRB3*01	73(16)					DPA1*01	100(14)	DPB1*02	35(6)
	DRB1*03	97(30)	DRB3*PRESENT	27(6)								
	<b>32 labs High; 31 labs low-DRB1</b>	%(n)	<b>18 labs High; 22 labs Low-DRB3/4/5</b>	%(n)	<b>22 labs High; 27 labs Low-DQA1</b>	%(n)	<b>32 High Labs; 29 labs Low-DQB1</b>	%(n)				
	DRB1*04:04:01	28(9)	DRB4*01:03:01	22(4)	DQA1*05:01:01:02	14(3)	DQB1*03:02:01:02	9 (3)				
	DRB1*04:04	72(23)	DRB4*01:03P	6 (1)	DQA1*05:01:01	9 (2)	DQB1*03:02:01:01	3 (1)				
	DRB1*04	100(31)	DRB4*01:03	72(13)	DQA1*05:01	77(17)	DQB1*03:02:01	13(4)				
			DRB4*01	73(16)	DQA1*05	100(27)	DQB1*03:02	72(23)				
		DRB4*PRESENT	27(6)			<i>DQB1*03:01</i>	3 (1)					
						DQB1*03(DQ8)	3 (1)					
						DQB1*03	97(28)					
<b>DNA Typing - class I</b>	<b>21 labs High; 24 labs low- A</b>	%(n)	<b>21 labs High; 24 labs low- B</b>	%(n)	<b>22 labs High; 24 labs low- C</b>	%(n)						
	A*01:01:01:01	14(3)	B*08:01:01:01	14(3)	C*03:04:01:01	14(3)						
	A*01:01:01	14(3)	B*08:01:01	14(3)	C*03:04:01	14(3)						
	A*01:01:01G	5 (1)	B*08:01:01G	5 (1)	C*03:04:01G	5 (1)						
	A*01:01P	5 (1)	B*08:01P	5 (1)	C*03:04P	5 (1)						
	A*01:01	62(13)	B*08:01	62(13)	C*03:04	64(14)						
	A*01	100(24)	B*08	100(24)	C*03(Cw10)	4 (1)						
					C*03	96(23)						
	<b>21 labs High; 24 labs low- A</b>	%(n)	<b>23 labs High; 24 labs low- B</b>	%(n)	<b>21 labs High; 24 labs low- C</b>	%(n)						
	A*03:01:01:01	14(3)	B*40:31	100(23)	C*07:01:01:01	9(2)						
	A*03:01:01	14(3)	B*40 (B60)	4 (1)	C*07:01:01	19(4)						
	A*03:01P	5 (1)	B*40	96(23)	C*07:01:01G	5 (1)						
	A*03:01	67(14)			C*07:01P	5 (1)						
A*03	100(24)			C*07:01	62(13)							
				C*07	100(24)							



**Table 3a: Individual laboratory results for B-cell #557 - Class II**

Low resolution														
Center	DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
87	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*02(DP201)	*02(DP201)	RT-PCR	
206	*03	*04	3*01	4*01	*03	*05	*02	*03	*01		*02		SSO	
278	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*02	*02		
725	*03	*04	3*PRESENT	4*PRESENT	*03	*05	*02	*03					SSP SSO	
731	*03	*04			*03	*05	*02	*03					SSP SSO SBT	
735	*03	*04	3*01	4*01	*03	*05	*02	*03	*01		*02(DP201)		SSP SSO SBT	
747	*03	*04	3*PRESENT	4*PRESENT	*03	*05	*02	*03	*01	*01	*02	*02	SSP SSO NGS	
771	*03	*04			*03	*05	*02	*03					SSP SSO	
774	*03	*04	3*01	4*01	*03	*05	*02	*03			*02(DP201)		SSP SSO	
779	*03	*04	3*01	4*01	*03	*05	*02	*03	*01		*02(DP201)		SSP SSO	
792	*03	*04	3*01	4*01	*03	*05	*02	*03	*01		*02		SSO SBT	
793	*03	*04	3*01	4*01	*03	*05	*02	*03			*02(DP201)		SSP	
2400	*03	*04	3*01	4*01	*03	*05	*02	*03			*02		SSP SSO SBT	
2847	*03	*04											SSO	
3519	*03	*04			*03	*05	*02	*03	*01		*02(DP201)		SSP NGS	
3632	*03	*04	3*01	4*01	*03	*05	*02	*03	*01		*02(DP201)		SSP SSO	
3966													SSP	
4079	*03	*04			*03	*05	*02	*03	*01		*02(DP201)		SSP SSO NGS	
4251	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*02(DP201)	*02(DP201)	SSO NGS	
4492	*03	*04	3*PRESENT	4*PRESENT	*03	*05	*02	*03	*01		*02(DP201)		SSP SSO NGS	
5130	*03	*04	3*01	4*01	*03	*05	*02	*03			*02	*02	SSO NGS	
5214	*03 (DR17)	*04	3*01	4*01	*03 (DQ8)	*05	*02	*03	*01		*02(DP201)		RT-PCR	
5219	*03	*04			*03	*05	*02	*03					SSO	
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	
5488			3*01	4*01									SSP SSO SBT NGS	
5642	*03	*04	3*PRESENT	4*PRESENT			*02	*03					SSP	
6649	*03	*04	3*PRESENT	4*PRESENT									SSO	
8001	*03	*04			*03	*05	*02	*03					SSP 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	
9916	*03	*04	3*PRESENT	4*PRESENT			*02	*03					SSP	B*48

**Table 3b: Individual laboratory results for B-cell #557 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*03:01	*04:04					*02:01	*03:02			*02:01		SSO SBT	
278	*03:01	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*02:01	*02:01		
731	*03:01	*04:04:01					*02:01:01	*03:02					SSP SSO SBT	
735	*03:01	*04:04	3*01:01P	4*01:01P	*03:01	*05:01	*02:01	*03:02	*01:03P		*02:01		SSP SSO SBT	DPA1*01:13
747	*03:01:01:01	*04:04:01	3*01:01:02:01	4*01:03:01	*03:01:01	*05:01:01:02	*02:01:01	*03:02:01:02	*01:03:01:01	*01:03:01:01	*02:01:02	*02:01:02	SSP SSO NGS	
762	*03:01:01:01	*04:04:01	3*01:01:02:01	4*01:03:01	*03:01:01	*05:01:01:02	*02:01:01	*03:02:01:02	*01:03:01:01		*02:01:02		NGS	
771	*03:01	*04:04					*02:01	*03:02					SSP SSO	
														DRB1*03:100 DRB1*03:68N DRB1*03:83 DRB1*03:104 DRB1*03:112 DRB4*01:09 DRB4*01:10 DQB1*03:110 DQB1*03:161
774	*03:01	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02			*02:01		SSP SSO	
779	*03:01				*03:01	*05:01	*02:01	*03:01	*01:03		*02:01		SSP SSO	
792	*03:01	*04:04					*02:01	*03:02			*02:01		SSO SBT	
793					*03:01	*05:01					*02:01		SSP	
2344	*03:01:01	*04:04:01					*02:01:01	*03:02:01			*02:01:02G	*02:01:02G	NGS	
2400	*03:01	*04:04			*03:01	*05:01	*02:01	*03:02			*02:01:02G		SSP SSO SBT	
3135	*03:01	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*02:01	*02:01		
3224	*03:01:01G	*04:04	NT	NT	NT	NT	*02:01	*03:02	NT	NT	NT	NT	SSP SBT	
3511	*03:01	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*02:01	*02:01	SSP SSO	
3519	*03:01	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*02:01		SSP NGS	
3632	*03:01	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*02:01		SSP SSO	
3753	*03:01:01	*04:04:01	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01	*01:03:01	*02:01:02	*02:01:02	NGS	
3966	*03:01	*04:04	3*01:01	4*01:03			*02:01	*03:02					SSP	
4079	*03:01	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*02:01		SSP SSO NGS	
4251	*03:01	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*02:01	*02:01	SSO NGS	
4337	*03:01	*04:04					*02:01	*03:02			*02:01	*02:01	SBT NGS	
4492	*03:01:01	*04:04:01	3*01:01	4*01:03	*03:01:01	*05:01:01:02	*02:01:01	*03:02:01	*01:03	*01:03	*02:01:02		SSP SSO NGS	DPA1*01:13
5130	*03:01	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02			*02:01	*02:01	SSO NGS	DRB1*04:22
5133	*03:01:01	*04:04:01	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01:02	*01:03:01:01		*02:01:02		NGS	
5451	*03:01:01	*04:04:01											SSO SBT	
5488	*03:01:01	*04:04:01			*03:01	*05:01	*02:01:01	*03:02:01			*02:01:02		SSP SSO SBT NGS	DRB1*03:06 DRB1*04:42
5642	*03:01	*04:04					*02:01	*03:02					SSP	
8001	*03:01	*04:04	3*01:01	4*01:03			*02:01	*03:02			*02:01		SSP SSO	
8021	*03:01	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*02:01		SSO NGS	
8043	*03:01	*04:04			*03:01	*05:01	*02:01	*03:02:01:01					SSP SSO	
8070	*03:01	*04:04					*02:01	*03:02					SBT	
8086	*03:01	*04:04			*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*02:01	*02:01	SSO SBT	

**Table 4: Individual laboratory results for B-cell #557-Class II**

Serology									
CTR	DRB1		DRB3/4/5		DQB1		Others		
910	DR18	DR4	DR52	DR53		DQ2	DQ3	DR17	

**Table 5: Individual laboratory results for B-cell #557 - Class I**

Low resolution										High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C						
87	*01	*03	*08	*40	*03	*07							RT-PCR				
206	*01	*03	*08	*40	*03	*07							SSO				
230							*01:01	*03:01	*08:01	*40:31	*03:04	*07:01	SSO SBT				
278	*01	*03	*08	*40	*03	*07	*01:01	*03:01	*08:01	*40:31	*03:04	*07:01					
725	*01	*03	*08	*40	*03	*07							SSP SSO				
735	*01	*03	*08	*40	*03	*07	*01:01P	*03:01P	*08:01P	*40:31	*03:04P	*07:01P	SSP SSO SBT				
747	*01	*03	*08	*40	*03	*07	*01:01:01:01	*03:01:01:01	*08:01:01:01	*40:31	*03:04:01:01	*07:01:01:01	SSP SSO NGS				
774	*01	*03	*08	*40	*03	*07				*40:31			SSP SSO				
779	*01	*03	*08	*40	*03	*07				*40:31	*03:04		SSP SSO				
792	*01	*03	*08	*40	*03	*07	*01:01	*03:01	*08:01	*40:31	*03:04	*07:01	SSO SBT	A*03:01:01:02N			
793	*01	*03	*08	*40	*03	*07							SSP				
2344							*01:01:01	*03:01:01	*08:01:01	*40:31	*03:04:01	*07:01:01	NGS				
2400	*01	*03	*08	*40	*03	*07	*01:01	*03:01	*08:01	*40:31	*03:04	*07:01	SSP SSO SBT				
2847	*01	*03	*08	*40	*03	*07							SSO				
3135							*01:01	*03:01	*08:01	*40:31	*03:04	*07:01					
3224							*01:01:01G	*03:01	*08:01:01G	*40:31	*03:04:01G	*07:01:01G	SSP SBT				
3511							*01:01	*03:01	*08:01	*40:31	*03:04	*07:01	SSP SSO				
3519	*01	*03	*08	*40	*03	*07	*01:01	*03:01	*08:01	*40:31	*03:04	*07:01	SSP NGS				
3753							*01:01:01	*03:01:01	*08:01:01	*40:31	*03:04:01	*07:01:01	NGS				
3966	*01	*03	*08	*40	*03	*07							SSP				
4079	*01	*03	*08	*40	*03	*07	*01:01	*03:01	*08:01	*40:31	*03:04	*07:01	SSP SSO NGS				
4251	*01	*03	*08	*40	*03	*07	*01:01	*03:01	*08:01	*40:31	*03:04	*07:01	SSO NGS				
4337							*01:01	*03:01	*08:01	*40:31	*03:04	*07:01	SBT NGS				
4492	*01	*03	*08	*40	*03	*07	*01:01:01:01	*03:01:01:01	*08:01:01:01	*40:31	*03:04:01:01	*07:01:01	SSP SSO NGS				
5130	*01	*03	*08	*40	*03	*07	*01:01	*03:01	*08:01	*40:31	*03:04	*07:01	SSO NGS				
5133							*01:01:01:01	*03:01:01:01	*08:01:01:01	*40:31	*03:04:01:01	*07:01:01:01	NGS				
5214	*01	*03	*08	*40 (B60)	*03 (Cw10)	*07							RT-PCR				
5219	*01	*03	*08	*40	*03	*07							SSO				
5462	*01	*03	*08	*40	*03	*07							RT-PCR				
5488							*01:01:01	*03:01:01	*08:01:01	*40:31	*03:04:01	*07:01:01	SSP SSO SBT				
8021							*01:01	*03:01	*08:01	*40:31	*03:04	*07:01	NGS				
8029	*01	*03	*08	*40	*03	*07							SSO				
8068	*01	*03	*08	*40	*03	*07							SSO				
8086							*01:01	*03:01	*08:01	*40:31	*03:04	*07:01	SSO SBT				
9916	*01	*03	*08	*40	*03	*07							SSP	B*48			

**Table 6a: Individual laboratory results for B-cell #558 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
87	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02(DP201)	*03	RT-PCR	DPB1*124
206	*11	*13	3*02	3*03	*01	*05	*03	*06	*01		*02	*03	SSO	DPB1*104
278	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02	*03		
725	*11	*13	3*PRESENT		*01	*05	*03	*06					SSP SSO	
731	*11	*13			*01	*05	*03	*06					SSP SSO SBT	
735	*11	*13	3*02	3*03	*01	*05	*03	*06	*01		*02(DP201)	*03	SSP SSO SBT	
747	*11	*13	3*PRESENT	3*PRESENT	*01	*05	*03	*06	*01	*01	*02	*03	SSP SSO NGS	
771	*11	*13			*01	*05	*03	*06					SSP SSO	
774	*11	*13	3*02	3*03	*01	*05	*03	*06			*02(DP201)	*03	SSP SSO	
779	*11	*13	3*02	3*03	*01	*05	*03	*06	*01		*02(DP201)	*03	SSP SSO	
792	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02	*03	SSO SBT	
793	*11	*13	3*02	3*03	*01	*05	*03	*06			*02(DP201)	*03	SSP	
2400	*11	*13	3*02	3*03	*01	*05	*03	*06			*02	*03	SSP SSO SBT	
2847	*11	*13											SSO	
3519	*11	*13			*01	*05	*03	*06	*01		*02(DP201)	*03	SSP NGS	
3632	*11	*13	3*02	3*03	*01	*05	*03	*06	*01		*02(DP201)	*03	SSP SSO	
3966													SSP	
4079	*11	*13			*01	*05	*03	*06	*01		*02(DP201)	*03	SSP SSO NGS	
4251	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02(DP201)	*03	SSO NGS	
4492	*11	*13	3*PRESENT		*01	*05	*03	*06	*01		*02(DP201)	*03	SSP SSO NGS	
5130	*11	*13	3*02	3*03	*01	*05	*03	*06			*02	*03	SSO NGS	
5214	*11	*13	3*02	3*03	*01	*05	*03 (DQ7)	*06	*01		*02(DP201)	*03	RT-PCR	
5219	*11	*13			*01	*05	*03	*06					SSO	
5451	*11	*13	3*02	3*03	*01	*05	*03	*06					SSO SBT	
5462	*11	*13	3*02	3*03	*01	*05	*03	*06	*01		NT	NT	RT-PCR	
5488			3*02	3*03									SSP SSO SBT NGS	
5642	*11	*13	3*PRESENT				*03	*06					SSP	
6649	*11	*13	3*PRESENT										SSO	
8001	*11	*13			*01	*05	*03	*06					SSP SSO	
8029	*11	*13			*01	*05	*03	*06					SSO	
8043	*11	*13			*01	*05	*03	*06					SSP SSO	
8068	*11	*13			*01	*05	*03	*06					SSO	
9916	*11	*13	3*PRESENT				*03	*06					SSP	DRB1*03 DQB1*03



**Table 6b: Individual laboratory results for B-cell #558 - Class II**

Center	High resolution												METHOD	Other Alleles
	DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1				
230	*11:01	*13:02					*03:01	*06:04			*02:01	*03:01	SSO SBT	
278	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:05	*03:01	*06:04	*01:03	*01:03	*02:01	*03:01		
731	*11:01	*13:02:01					*03:01	*06:04					SSP SSO SBT	DQB1*03:22 DQB1*06:39
735	*11:01	*13:02	3*02:02P	3*03:01P	*01:02	*05:05	*03:01	*06:04	*01:03P		*02:01	*03:01	SSP SSO SBT	DPA1*01:13
747	*11:01:01	*13:02:01	3*02:02:01:02	3*03:01:01	*01:02:01:04	*05:05:01	*03:01:01:03	*06:04:01	*01:03:01:03	*01:03:01:04	*02:01:02	*03:01:01	SSP SSO NGS	DPB1*124:01 DPB1*414:01 DPB1*461:01 DPB1*352:01
762	*11:01:01	*13:02:01	3*02:02:01:02	3*03:01:01	*01:02:01	*05:05:01	*03:01:01:03	*06:04:01	*01:03:01:03	*01:03:01:04	*02:01:02	*03:01:01	NGS	
771	*11:01	*13:02					*03:01	*06:04					SSP SSO	
774	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:05	*03:01	*06:04			*02:01	*03:01	SSP SSO	DRB1*11:97 DRB1*11:100 DRB1*11:117 DRB1*11:157 DRB1*11:158 DQB1*03:73 DQB1*03:92 DQB1*03:93
779					*01:02	*05:05	*03:01	*06:04	*01:03		*02:01	*03:01	SSP SSO	
792	*11:01	*13:02					*03:01	*06:04			*02:01	*03:01	SSO SBT	
793					*01:02	*05:05					*02:01	*03:01	SSP	
2344	*11:01:01	*13:02:01					*03:01:01G	*06:04:01			*02:01:02G	*03:01:01G	NGS	
2400	*11:01	*13:02			*01:02	*05:05	*03:01	*06:04			*02:01:02G	*03:01:01G	SSP SSO SBT	
3135	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:05	*03:01	*06:04	*01:03	*01:03	*02:01	*03:01		DQA1*05:09
3224	*11:01:01G	*13:02:01G	NT	NT	NT	NT	*03:01:01G	*06:04:01G	NT	NT	NT	NT	SSP SBT	
3511	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:05	*03:01	*06:04	*01:03	*01:03	*02:01	*03:01	SSP SSO	
3519	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:05	*03:01	*06:04	*01:03		*02:01	*03:01	SSP NGS	
3632	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:05	*03:01	*06:04	*01:03		*02:01	*03:01	SSP SSO	
3753	*11:01:01	*13:02:01	3*02:02:01	3*03:01:01	*01:02:01	*05:05:01	*03:01:01	*06:04:01	*01:03:01	*01:03:01	*02:01:02	*03:01:01	NGS	
3966	*11:01	*13:02	3*02:02	3*03:01			*03:01	*06:04					SSP	
4079	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:05	*03:01	*06:04	*01:03		*02:01	*03:01	SSP SSO NGS	
4251	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:05	*03:01	*06:04	*01:03	*01:03	*02:01	*03:01	SSO NGS	
4337	*11:01	*13:02					*03:01	*06:04			*02:01	*03:01	SBT NGS	
4492	*11:01:01	*13:02:01	3*02:02	3*03:01	*01:02:01	*05:05:01	*03:01:01	*06:04:01	*01:03	*01:03	*02:01:02	*03:01:01	SSP SSO NGS	DRB3*03:02 DPA1*01:13
5130	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:05	*03:01	*06:04			*02:01	*03:01	SSO NGS	
5133	*11:01:01	*13:02:01	3*02:02:01	3*03:01:01	*01:02:01	*05:05:01	*03:01:01	*06:04:01	*01:03:01		*02:01:02	*03:01:01	NGS	
5451	*11:01:01	*13:02:01											SSO SBT	
5488	*11:01:01	*13:02:01			*01:02:01	*05:05:01	*03:01:01	*06:04:01	*01:03:01		*02:01:02	*03:01:01	SSP SSO SBT	
5642	*11:01	*13:02					*03:01	*06:04					NGS	
8001	*11:01	*13:02	3*02:02	3*03:01			*03:01	*06:04			*02:01	*03:01:01G	SSP SSO	
8021	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:05	*03:01	*06:04	*01:03		*02:01	*03:01	SSO NGS	

**Table 6b: Individual laboratory results for B-cell #558 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
8043	*11:01	*13:02			*01:02	*05:05	*03:01	*06:04					SSP SSO	
8070													SBT	
8086	*11:01	*13:02			*01:02	*05:05	*03:01	*06:04	*01:03	*01:03	*02:01	*03:01	SSO SBT	

**Table 7: Individual laboratory results for B-cell #558-Class II**

Serology										
CTR	DRB1		DRB3/4/5		DQB1				Others	
910	DR11	DR4	DR52	DR53			DQ7	DQ1		

**Table 8: Individual laboratory results for B-cell #558 - Class I**

Table 8: Individual laboratory results for B-cell #558 - Class I														
Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
87	*02	*23	*40	*44	*03	*04							RT-PCR	
206	*02	*23	*40	*44	*03	*04							SSO	
230							*02:01	*23:01	*40:14	*44:03	*03:04	*04:01	SSO SBT	
278	*02	*23	*40	*44	*03	*04	*02:01	*23:01	*40:14	*44:03	*03:04	*04:01		
725	*02	*23	*40	*44	*03	*04							SSP SSO	
735	*02	*23	*40	*44	*03	*04	*02:01P	*23:01:01G	*40:14	*44:03	*03:04P	*04:01P	SSP SSO SBT	
747	*02	*23	*40	*44	*03	*04	*02:01:01:01	*23:01:01	*40:14:03	*44:03:01:01	*03:04:01:01	*04:01:01:01	SSP SSO NGS	
774	*02	*23	*40	*44	*03	*04			*40:14				SSP SSO	B*40:121
779	*02	*23	*40	*44	*03	*04			*40:01	*44:03	*03:04		SSP SSO	B*40:01:13
792	*02	*23	*40	*44	*03	*04	*02:01	*23:01	*40:14:03	*44:03	*03:04	*04:09N	SSO SBT	A*02:01:01:02L
793	*02	*23	*40	*44	*03	*04							SSP	
2344							*02:01:01	*23:01:01	*40:14:03	*44:03:01	*03:04:01	*04:01:01	NGS	
2400	*02	*23	*40	*44	*03	*04	*02:01	*23:01	*40:14	*44:03	*03:04	*04:01	SSP SSO SBT	
2847	*02	*23	*40	*44	*03	*04							SSO	
3135							*02:01	*23:01	*40:14	*44:03	*03:04	*04:01		
3224							*02:01:01G	*23:01:01G	*40:14:03	*44:03	*03:04:01G	*04:01P	SSP SBT	
3511							*02:01	*23:01	*40:14	*44:03	*03:04	*04:01	SSP SSO	
3519	*02	*23	*40	*44	*03	*04	*02:01	*23:01	*40:14	*44:03	*03:04	*04:01	SSP NGS	
3753							*02:01:01	*23:01:01	*40:14:03	*44:03:01	*03:04:01	*04:01:01	NGS	
3966	*02	*23	*40	*44	*03	*04							SSP	
4079	*02	*23	*40	*44	*03	*04	*02:01	*23:01		*44:03	*03:04	*04:01	SSP SSO NGS	
4251	*02	*23	*40	*44	*03	*04	*02:01	*23:01		*44:03	*03:04	*04:01	SSO NGS	
4337							*02:01	*23:01	*40:14	*44:03	*03:04	*04:01	SBT NGS	
4492	*02	*23	*40	*44	*03	*04	*02:01:01	*23:01:01	*40:14:03	*44:03:01	*03:04:01:01	*04:01:01	SSP SSO NGS	
5130	*02	*23	*40	*44	*03	*04	*02:01	*23:01	*40:14	*44:03	*03:04	*04:01	SSO NGS	
5133							*02:01:01	*23:01:01	*40:14:03	*44:03:01	*03:04:01:01	*04:01:01:14	NGS	
5214	*02	*23	*40 (B60)	*44	*03 (Cw10)	*04							RT-PCR	
5219	*02	*23	*40	*44	*03	*04							SSO	
5462	*02	*23	*40	*44	*03	*04							RT-PCR	
5488							*02:01:01	*23:01:01	*40:14:03	*44:03:01	*03:04:01	*04:01:01	SSP SSO SBT	
8021							*02:01	*23:01	*40:14	*44:03	*03:04	*04:01	SSO NGS	
8029	*02	*23	*40	*44	*03	*04							SSO	
8068	*02	*23	*40	*44	*03	*04							SSO	
8086							*02:01	*23:01	*40:14	*44:03	*03:04	*04:01	SSO SBT	
9916	*02	*23	*40	*44	*03	*04							SSP	

## CELL EXCHANGE #408

The results for Cell Exchange #408 are summarized in Table 9 and Table 10. Molecular typing results for individual laboratories are listed in Tables 11 - 14 for each sample and individual serological results for each sample are

listed in Table 15. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

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**Cell 1629.** The reported consensus type for this sample from a Chinese donor is A\*01:01(A1)-A\*02:01(A2)-B\*15:25(B62)-B\*52:01(B52)-C\*04:03-C\*12:02. The likely associations of B\*15:25-C\*04:03 and B\*52:01-C\*12:02 in this cell are commonly observed in Asian populations, with respective HF = 0.00455 and 0.03354.

A\*01:01, A\*02:01, B\*15:25, B\*52:01, C\*04:03 and C\*12:02 were each assigned in complete consensus by labs reporting at high resolution. A\*01:01:01:01 and B\*52:01:01:02 were each assigned by 4 labs, and A\*02:01:01:01 and C\*12:02:02:01 were each assigned by 3 labs. Serological typing results were well assigned as A1 (100%), A2 (100%), B15 (B62)(93%), and B52 (100%).

**Cell 1630.** The reported consensus type for this sample from an Asian donor is A\*11:01(A11)-B\*15:02(B15)-C\*08:01. The A\*11:01-B\*15:02-C\*08:01 association present in this cell is the 3<sup>rd</sup> most common association observed in Asians, with HF = 0.02020.

This cell was previously examined as cell 1503 (2013). In this present retyping, A\*11:01, B\*15:02, and C\*08:01 were each assigned in complete consensus, with 4 labs assigning B\*15:02:01 and 3 labs assigning A\*11:01:01:01 and C\*08:01:01:01. A11 (100%) was reported by serology, with 1 lab reporting A1101. B15 (100%) was assigned as the sole B-locus type, with 64% of labs assigning B75. B62 was misassigned by 3 labs.

**Cell 1631.** The reported consensus type for this sample from a Hispanic donor is A\*29:02(A29)-A\*68:03(A68)-B\*40:02(B40)-B\*44:03(B44)-C\*03:04-C\*16:01. The likely associations present in this cell are B\*40:02-C\*03:04 and B\*44:03-C\*16:01, observed commonly in Hispanics, with respective HF = 0.02282 and 0.03311.

A\*29:02, A\*68:03, B\*40:02, B\*44:03, C\*03:04, and C\*16:01 were each assigned in complete consensus, with 3 labs assigning A\*29:02:01, A\*68:03:01, B\*40:02:01, B\*44:03:01, C\*03:04:01, and C\*16:01:01:01. A29 (100%), A28 (92%), B44 (100%), and B40 (B61) were reported by serology. A68 (75%) was assigned as the A28 split, and B61 (50%) was assigned as the B40 split.

**Cell 1632.** The reported consensus type for this sample from a Hispanic donor is A\*02:06(A2), A\*68:03(A68), B\*35:12(B35), B\*48:01(B48), C\*04:01, and C\*08:01. Likely associations present in this cell are A\*68:03-B\*35:12-C\*04:01 and A\*02:06-B\*48:01-C\*08:01, with respective HF = 0.00051 and 0.00505, in Hispanics.

This cell was examined numerous times in the exchange as cells 1521 (2014), 1423 (2011), 1322 (2008), and 1316 (2007). In this present retyping, A\*02:06, A\*68:03, B\*35:12, B\*48:01, C\*04:01, and C\*08:01 were each assigned in complete consensus, with 3 labs assigning A\*02:06:01:01, A\*68:03:01, B\*35:12:01, B\*48:01:01, C\*04:01:01, and C\*08:01:01:01. A2 (100%), A68 (75%), B35 (100%), and B48 (83%) were the reported serological types.

**Table 9. Summary of the 408<sup>th</sup> Cell Exchange (Cell #1629-1632)**

**DNA typing**

<b>Cell 1629</b>	
19 low/12 high labs - A	%(n)
A*01:01:01:01	33(4)
A*01:01:01G	8 (1)
A*01:01	58(7)
A*01	100(19)
19 low/12 high labs - A	%(n)
A*02:01:01:01	25(3)
A*02:01:01	8 (1)
A*02:01:01G	8 (1)
A*02:01	58(7)
A*02	100(19)
19 low/15 high labs - B	%(n)
B*15:25:01	27(4)
B*15:25:01G	7 (1)
B*15:25	67(10)
B*15(B62)	11(2)
B*15	89(17)
19 low/12 high labs - B	%(n)
B*52:01:01:02	33(4)
B*52:01:01G	8 (1)
B*52:01	58(7)
B*52	100(19)
17 low/13 high Labs - C	%(n)
C*04:03:01	31(4)
C*04:03	69(9)
C*04	100(17)
17 low/12 high Labs - C	%(n)
C*12:02:02:01	25(3)
C*12:02:02	8 (1)
C*12:02:01G	8 (1)
C*12:02	58(7)
C*12	100(17)

<b>Cell 1630</b>	
18 low/12 high labs - A	%(n)
A*11:01:01:01	25(3)
A*11:01:01	8 (1)
A*11:01:01G	8 (1)
A*11:01	58(7)
A*11	100(18)
18 low/14 high labs - B	%(n)
B*15:02:01	29(4)
B*15:02:01G	7 (1)
B*15:02	64(9)
B*15(B75)	11(2)
B*15	89(16)
17 low/12 high Labs - C	%(n)
C*08:01:01:01	25(3)
C*08:01:01	8 (1)
C*08:01:01G	8 (1)
C*08:01	58(7)
C*08	100(17)
16 low/13 high Labs - C	%(n)
C*03:04:01:02	15(2)
C*03:04:01	8 (1)
C*03:04:01G	15(2)
C*03:04	62(8)
C*03(Cw10)	13(2)
C*03	87(14)
16 low/11 high Labs - C	%(n)
C*16:01:01:01	27(3)
C*16:01:01G	9 (1)
C*16:01	64(7)
C*16	100(16)

<b>Cell 1631</b>	
18 low/11 high labs - A	%(n)
A*29:02:01:01	18(2)
A*29:02:01	9 (1)
A*29:02:01G	9 (1)
A*29:02	64(7)
A*29	100(18)
18 low/13 high labs - A	%(n)
A*68:03:01	23(3)
A*68:03	77(10)
A*68	100(18)
18 low/13 high labs - B	%(n)
B*40:02:01:01	15(2)
B*40:02:01	8 (1)
B*40:02:01G	15(2)
B*40:02	62(8)
B*40(B61)	11(2)
B*40	89(16)
18 low/11 high labs - B	%(n)
B*44:03:01:01	18(2)
B*44:03:01	9 (1)
B*44:03	73 (8)
B*44	100(18)
16 low/13 high Labs - C	%(n)
C*03:04:01:02	15(2)
C*03:04:01	8 (1)
C*03:04:01G	15(2)
C*03:04	62(8)
C*03(Cw10)	13(2)
C*03	87(14)
16 low/11 high Labs - C	%(n)
C*16:01:01:01	27(3)
C*16:01:01G	9 (1)
C*16:01	64(7)
C*16	100(16)

<b>Cell 1632</b>	
18 low/11 high labs - A	%(n)
A*02:06:01:01	27(3)
A*02:06:01G	9 (1)
A*02:06	64(7)
A*02	100(18)
18 low/13 high labs - A	%(n)
A*68:03:01	23(3)
A*68:03	77(10)
A*68	100(18)
18 low/12 high labs - B	%(n)
B*35:12:01	25(3)
B*35:12	75(9)
B*35	100(18)
18 low/11 high labs - B	%(n)
B*48:01:01:01	18(2)
B*48:01:01	9 (1)
B*48:01:01G	9 (1)
B*48:01	64(7)
B*48	100(18)
16 low/11 high labs - C	%(n)
C*04:01:01	27(3)
C*04:01P	9 (1)
C*04:01	64(7)
C*04	100(16)
16 low/11 high labs - C	%(n)
C*08:01:01:01	27(3)
C*08:01:01G	9 (1)
C*08:01	65(7)
C*08	100(16)



**Table 11. Individual laboratory results for Cell #1629**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02		
725	*01	*02	*15	*52	*04	*12							SSO	
745							*01:01:01:01	*02:01:01:01	*15:25:01	*52:01:01:02	*04:03:01	*12:02:02:01	SSP SBT NGS	
747	*01	*02	*15	*52	*04	*12	*01:01:01:01	*02:01:01:01	*15:25:01	*52:01:01:02	*04:03:01	*12:02:02	SSP SSO NGS	
762							*01:01:01:01	*02:01:01:01	*15:25:01	*52:01:01:02	*04:03:01	*12:02:02:01	NGS	
771	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SSP SSO	
774	*01	*02	*15	*52	*04	*12			*15:25		*04:03		SSP SSO	B*15:240 B*15:250 B*15:271 C*04:107 C*04:171
779	*01	*02	*15	*52	*04	*12			*15:25				SSP SSO	
3186	*01	*02	*15	*52	*04	*12							SSO	
3545	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SSO SBT	A*01:234 A*01:237 A*02:629 A*02:642 A*02:665 A*02:686 A*02:689 A*02:704 B*52:53 C*04:286
3632	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SSP SSO	
3766	*01	*02	*15	*52	NT	NT								
3808	*01	*02	*15	*52	*04	*12			*15:25:01G				SSP	
4079	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SSP NGS	
4251	*01	*02	*15	*52	*04	*12	*01:01:01G	*02:01:01G	*15:25	*52:01:01G	*04:03	*12:02:01G	SSO SBT	
5133							*01:01:01:01	*02:01:01	*15:25:01	*52:01:01:02	*04:03:01	*12:02:02:01	NGS	
5214	*01	*02	*15 (B62)	*52	*04	*12							SSO	
5462	*01	*02	*15	*52	*04	*12	*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SSO NGS	
5642	*01	*02	*15	*52	*04	*12								
6649	*01	*02	*15	*52									SSO	
8001	*01	*02	*15 (B62)	*52	*04	*12							SSP SSO	
8043	*01	*02	*15	*52	*04	*12							SSO	
8070							*01:01	*02:01	*15:25	*52:01	*04:03	*12:02	SBT	

**Table 12. Individual laboratory results for Cell #1630**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*11	*15	*15	*08	*08	*11:01	*11:01	*15:02	*15:02	*08:01	*08:01		
725	*11		*15		*08								SSO	
745							*11:01:01:01	*11:01:01:07	*15:02:01		*08:01:01:01		SSP SBT NGS	
747	*11	*11	*15	*15	*08	*08	*11:01:01:01	*11:01:01:01	*15:02:01	*15:02:01	*08:01:01	*08:01:01	SSP SSO NGS	
762							*11:01:01:01	*11:01:01:07	*15:02:01		*08:01:01:01		NGS	
771	*11		*15		*08		*11:01		*15:02		*08:01		SSP SSO	
774	*11		*15		*08								SSP SSO	
779	*11		*15		*08				*15:02				SSP SSO	
3186	*11	*11	*15	*15	*08	*08							SSO	
3545	*11		*15		*08		*11:01		*15:02		*08:01		SSO SBT	A*11:263 C*08:22
3632	*11		*15		*08		*11:01		*15:02		*08:01		SSP SSO	C*08:99 C*08:102
3766	FTA	FTA	FTA	FTA	NT	NT								
3808	*11		*15		*08				*15:02:01G				SSP	
4079	*11		*15		*08		*11:01		*15:02		*08:01		SSP NGS	
4251	*11	*11	*15	*15	*08	*08	*11:01:01G	*11:01:01G	*15:02	*15:02	*08:01:01G	*08:01:01G	SSO SBT	
5133							*11:01:01		*15:02:01		*08:01:01:01		NGS	
5214	*11		*15 (B75)		*08								SSO	
5462	*11		*15		*08		*11:01		*15:02		*08:01		SSO NGS	
5642	*11		*15		*08									
6649	*11		*15										SSO	
8001	*11		*15 (B75)		*08								SSP SSO	
8043	*11		*15		*08								SSO	
8070							*11:01		*15:02		*08:01		SBT	



**Table 13. Individual laboratory results for Cell #1631**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01		
725	*29	*68	*40	*44	*03	*16							SSO	
745							*29:02:01:01	*68:03:01	*40:02:01	*44:03:01	*03:04:01:02	*16:01:01:01	SSP SBT NGS	
747	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO NGS	
762							*29:02:01:01	*68:03:01	*40:02:01:01	*44:03:01:01	*03:04:01:02	*16:01:01:01	NGS	
771	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SSP SSO	
774	*29	*68	*40	*44	*03	*16		*68:03					SSP SSO	
779	*29	*68	*40	*44	*03	*16		*68:03	*40:02		*03:04		SSP SSO	C*03:06
3186	*29	*68	*40	*44	*03	*16							SSO	
3545	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SSO SBT	A*29:95 A*29:100 B*40:303 B*40:356 C*16:111 C*16:112 C*03:358 C*03:359
3632	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SSP SSO	
3766	*29	*68	*40	*44	NT	NT								
3808	*29	*68	*40	*44	*03	*16			*40:02:01G		*03:04:01G		SSP	
4079	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SSP NGS	
4251	*29	*68	*40	*44	*03	*16	*29:02:01G	*68:03	*40:02:01G	*44:03	*03:04:01G	*16:01:01G	SSO SBT	
5133							*29:02:01	*68:03:01	*40:02:01:01	*44:03:01:01	*03:04:01	*16:01:01:01	NGS	
5214	*29	*68	*40 (B61)	*44	*03 (Cw10)	*16							SSO	
5462	*29	*68	*40	*44	*03	*16	*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SSO NGS	
5642	*29	*68	*40	*44	*03	*16								
6649	*29	*68	*40	*44									SSO	
8001	*29	*68	*40 (B61)	*44	*03 (Cw10)	*16							SSP SSO	
8043	*29	*68	*40	*44	*03	*16							SSO	
8070							*29:02	*68:03	*40:02	*44:03	*03:04	*16:01	SBT	

**Table 14. Individual laboratory results for Cell #1632**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01		
725	*02	*68	*35	*48	*04	*08							SSO	
745							*02:06:01:01	*68:03:01	*35:12:01	*48:01:01	*04:01:01	*08:01:01:01	SSP SBT NGS	
747	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO NGS	
762							*02:06:01:01	*68:03:01	*35:12:01	*48:01:01:01	*04:01:01	*08:01:01:01	NGS	
771	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSP SSO	
774	*02	*68	*35	*48	*04	*08		*68:03	*35:12				SSP SSO	
779	*02	*68	*35	*48	*04	*08		*68:03					SSP SSO	
3186	*02	*68	*35	*48	*04	*08							SSO	
3545	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSO SBT	C*04:30 C*04:82 C*04:226 C*04:275 C*04:277 C*08:22 C*08:99 C*08:102
3632	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSP SSO	
3766	*02	*68	*35	*48	NT	NT								
3808	*02	*68	*35	*48	*04	*08							SSP	
4079	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSP NGS	
4251	*02	*68	*35	*48	*04	*08	*02:06:01G	*68:03	*35:12	*48:01:01G	*04:01P	*08:01:01G	SSO SBT	
5133							*02:06:01:01	*68:03:01	*35:12:01	*48:01:01:01	*04:01:01	*08:01:01:01	NGS	
5214	*02	*68	*35	*48	*04	*08							SSO	
5462	*02	*68	*35	*48	*04	*08	*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSO NGS	
5642	*02	*68	*35	*48	*04	*08								
6649	*02	*68	*35	*48									SSO	
8001	*02	*68	*35	*48	*04	*08							SSP SSO	
8043	*02	*68	*35	*48	*04	*08							SSO	
8070							*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SBT	

**Table 15. Individual laboratory results for Cell #1629-1632 by serology**

Investigator	Days Old	Cell No 1629 (Chinese)									Cell No 1630 (Asian)					Cell No 1631 (Hispanic)									Cell No 1632 (Hispanic)								
		Viab %	A1	A2	B62	B52	Cw4	Bw4	Bw6	OTHERS	Viab %	A11	B15	Cw8	Bw6	OTHERS	Viab %	A29	A68	B40	B44	Cw3	Bw6	Bw4	OTHERS	Viab %	A2	A68	B35	B48	Cw4	Cw8	Bw6
Cecka, J. Mic	3	>95	+	+	+	+		+	+		>95	+	B75		+	>95	+	+	B61	+		+	+		>95	+	+	+	+			+	
Enczmann, J		80	+	+	+	+					80	+	B75			80	+	+	B61	+					80	+	+	+	+				
Fort, Marylis	3	95	+	+	+	+		+	+		98	+	B75		+	NT									NT								
Hahn, Amy B.		99	+	+	B15	+		+	+	B70	99	+	B75	+	B35	99	+	+	B61	+		+	+		99	+	+	+				+	B81
Hogan, Patric		90	+	+	+	+		+	+		90	+	B75	+		90	+	+	B61	+	+	+	+		50	+	A28	+	+	+	+	+	
Hubbell, Char		95	+	+	B75	+		+	+		95	+	B75	+		95	+		B61	+		+	+	A69	95	+	+	+	+			+	
Kafetzi, Mari		95	+	+	+	+					95	+	B75			95	+	+	+	+					95	+	+	+	+				
Latham, Katy	3	100	+	+	+	+		+	+		100	+	+	+		100	+	+	+	+		+	+		100	+	+	+	+			+	
Permpikul, Ve	6	90	+	+	+	+		+	+		90	A11.1	B75	+	B62	90	+	+	B60	+		+	+		90	+	+	+	+			+	
Pule, Ziningi		80	+	+	+	+		+	+	Cw3	80	+	B62	+	A3,B35	90	+	+	B73	+	+		+	B45,A28	90	+	+	+			+		
Renac, Virgin	3	100	+	+	B15	+		+	+		100	+	+	+		100	+	A28	+	+		+	+		100	+	A28	+	+			+	
Shai, Isaac	9	86	+	+	+	+	Cw6	+	+	Cw4,B35	86	+	B62	+	B35,Cw3	88	+	A28	B60	+	+	+	+	Cw7,Cw8	86	+	A28	+	+	+	+	+	B40
Vidan-Jeras,	7	100	+	+	+	+		+	+		95	+	B75	+		100	+	+	B61	+	+	+	+		100	+	+	+	+	+	+	+	
Villard, Jean		60	+	+	B15	+	Cw4	+	+	Cw12	85	+	+	+	Bw4	NT									NT								

## SERUM EXCHANGE #566

The results for **Serum Exchange 566 (sera 1257 - 1260)**, are summarized in Tables 16 - 23 and individual laboratory results by method are listed

in Tables 24 - 33. Sera positive to B17 (B57, B58), B13, and B40 (B60, B61) were examined in this study.

1257	method	#abs	B58	B57	B49	B51	A25	A32	A23	A24	A2403	B38	B52	B13	B37	B53	B50	B35	B62	B75	B63	B59	B44	B45	B55	B56	
class I	NIH-Std	1	no consensus																								
	NIH-Ext	2	100%	50%	100%	100%	50%	50%	50%	50%		100%	50%	50%	50%	50%											
	AHG	3	33%	33%	33%	33%	67%	100%	67%	67%							33%	33%	33%	33%					33%	33%	
	Luminex	28	96%	96%	93%	93%	96%	96%	93%	93%		93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	86%	86%	93%
	Flow	3	no specificities assigned																								
	C1q	2	100%	100%	100%	100%	100%	100%	100%	100%	50%	100%	100%	100%	100%	100%	50%			50%	100%	100%	100%				
	Other	2	50%	100%	100%	100%	100%	100%	100%	100%			100%	50%		50%	100%	100%	100%	100%	100%	50%	50%	50%			
1257	method	#abs	B70	B71	B72	B77	B27	Bw4	B47	B54	B64	B65	B46	B67	B78	B18	Cw1	Cw14	Cw16	Cw2	Cw4	Cw6	Cw7	Cw8			
	AHG	3	33%					67%																			
	Luminex	28		93%	93%	93%	93%		93%	86%	86%	75%	86%	82%	82%	82%											
	C1q	2				100%	100%		50%				50%														
	Other	2		100%	100%						50%	50%			50%	50%	50%	50%	50%	50%	50%	50%	50%	50%			

1257	method	#abs	DQ6	DR13	DR12	DQ8	DQ9	DR4	DQA1*03	DQA1*01	DR103	NEG
class II	NIH-Ext	1	no consensus									
	Luminex	25	88%	84%	76%	80%	76%	48%	20%	16%	12%	8%
	Flow	3	no specificities									
	Other	2	100%	100%	50%							

**Serum 1257** was found to be positive to B17 (B57, B58), B49, B51, A25, A32, A23, and A24 by NIH, antiglobulin, Luminex, C1q and Luminex PRA. Additional reactivity to B38, B13, B37, B59, B44, as well as reactivity to a number of 5C specificities, was reported by various methods, including Lu-

minex which reported each with >90% agreement. For class II, reactivity to DQ6, DR12, and DR13 was reported by Luminex and Luminex PRA. Consensus among Luminex labs for the reporting of class II antibodies was <90%, as such this serum was not graded for class II.

1258	method	#abs	B57	B58	A2	Cw7	Cw12	A203	A29	A26	A34	A25	A66	A69	A68	A31	A32	A33	B63	B73		
class I	NIH-Std	1	no consensus																			
	NIH-Ext	2	100%																			
	AHG	3	67%	33%	33%															33%		
	Luminex	28	93%	93%	93%	93%	93%	25%	71%	75%	71%	64%	64%	71%	64%	68%	68%	68%	75%	93%		
	Flow	3	no specificities assigned																			
	C1q	2				100%	100%															
	Other	2	100%	100%	100%	50%			50%	100%	100%	100%	100%	100%	100%	50%	50%	100%				
1258	method	#abs	B46	B76	B62	A43	A74	B77	B75	B13	Cw8	Cw10	Cw9	Cw15	Cw17	Cw16	Cw14	Cw1	Cw18			
	Luminex	28	79%	79%	71%	75%	68%	68%	46%	32%	82%	79%	75%	64%	64%	54%	46%	43%	39%			

1258	method	#abs	DR7	DR9	DQ2	DR53	DQA1*05	DQ9
class II	NIH-Ext	1	no consensus					
	Luminex	26	100%	96%	81%	92%	23%	19%
	Flow	3	no specificities assigned					
	Other	2	100%	100%	50%			

For **serum 1258**, anti-B57 reactivity was reported by NIH, antiglobulin, Luminex, and Luminex PRA. In addition, reactivity to B58, A2, Cw7, and Cw12 was reported by various methods, with Luminex reporting each, along with B57 and B73, with >90% agreement. Additional reactivity to A29, A31, as well as reactivity to a number of 10C specificities, was reported by Luminex

and Luminex PRA. Reactivity to a number of C-locus antigens was also reported by Luminex. Class II reactivity was reported by Luminex and Luminex PRA (DR7, DR9, DQ2). Good agreement (>90%) was achieved among luminex labs in the reporting of anti-DR7, -DR9, and -DR53 reactivity.

1259	method	#abs	B13	B60	B61	B40	B41	B47	B48	B27	B2708	B7	B81	B8101	A66	A6602	B44	B45	B50	B73	B42	Cw2	B55
class I	NIH-Std	1	no consensus																				
	NIH-Ext	2	100%	100%	100%		50%	50%	50%														
	AHG	3	100%	67%	67%		67%	67%	33%	100%		67%	67%		33%		33%	33%	33%		33%		
	Luminex	27	100%	100%	100%	33%	100%	100%	100%	100%	41%	100%	85%	30%	67%	63%	100%	100%	100%	100%	89%	100%	89%
	Flow	3	no specificities																				
	C1q	2	100%	100%	100%		100%	100%	100%	100%	50%	100%	50%	50%	50%	50%				100%			
	Other	1	no consensus																				
1259	method	#abs	B62	B76	B35	B72	B67	B51	B53	B71	B59	B82	B38	B78	B18	B39	Cw17	B77	B52	B75	B56	B37	
	Luminex	27	85%	85%	85%	85%	85%	81%	81%	81%	78%	74%	70%	70%	67%	63%	48%	44%	37%	37%	33%	19%	

1259	method	#abs	DR4	NEG			
class II	NIH-Ext	1	no consensus				
	Luminex	21	57%	43%			
	Flow	3	no specificities assigned				
	Other	1	no consensus				

**Serum 1259** was reported as strongly positive to B13 and B40 (B60, B61) by NIH, antiglobulin, Luminex, and C1q. Each was reported with >90% agreement among Luminex labs. Reactivity to A66 (A6602), B44, B45, B42, as well as reactivity to a number of 7C specificities, was reported by various

methods. No agreement, however, was achieved for the reporting of class II specificities, as 57% of Luminex labs reported anti-DR4 reactivity and 43% reported this serum as class II negative. As result, this sample was not graded for class II.

1260	method	#labs	B60	B61	B40	B41	B48	B81	B8101	B7	A31	A32	A74	B13	B27	B47	B50	B45	B42	B73	B46	A2	A29	A33	
class I	NIH-Std	1	no consensus																						
	NIH-Ext	2	100%	50%		50%	50%	50%																	
	AHG	3	67%	67%	33%	67%	33%	67%		67%	33%	33%	33%	33%	33%	33%	33%	33%			33%				
	Luminex	27	100%	100%		100%	100%	85%	33%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	89%	100%	100%	100%	
	Flow	3	no specificities assigned																						
	C1q	2	100%	100%		100%	100%	50%	50%												100%				
	Other	2	100%	100%		50%	100%	50%		100%	50%	50%	50%	100%	100%	50%	50%		100%			50%	50%	50%	
1260	method	#labs	Cw10	Cw7	A30	Cw9	Cw17	Cw16	B49	B55	B8	B67	B2708	B54	Cw6	Cw2	Cw12	Cw14	Cw1	Cw15	A66	A6602			
	Luminex	27	100%	100%	100%	100%	96%	93%	85%	74%	74%	48%	41%	33%	74%	70%	67%	48%	44%	33%	70%	56%			
	C1q	2	100%			50%																			
	Other	2		50%	50%			50%		50%															

1260	method	#labs	DQ2	DQA1*05	NEG			
class II	NIH-Ext	1	no consensus					
	Luminex	18	56%	33%	28%			
	Flow	3	no specificities assigned					
	Other	1	no consensus					

For **Serum 1260**, reactivity to a number of 7C specificities was reported by various methods, including reactivity to B40 (B60, B61), B48, B81, and B7. Additional reactivity to A31, A32, A74, B45, and reactivity to a number of 5C specificities was also reported, with Luminex reporting each with >90% agreement. C-locus reactivity was reported by Luminex, C1q, and Luminex PRA, with Luminex labs reporting reactivity to Cw10, Cw7, Cw9, Cw17, and

Cw16 with >90% agreement. By contrast, there was a lack of agreement among labs in the reporting of class II reactivity, as 56% of Luminex labs reported anti-DQ2 reactivity, 33% reported anti-DQA1\*05 reactivity, and 28% reported this sample as class II negative. As such, this sample was not graded for class II.

## SERUM EXCHANGE #567

The results for **Serum Exchange 567 (sera 1261 - 1264)**, are summarized in Tables 34 - 41 and individual laboratory results by method are listed

in Tables 42 - 54. Sera positive to A2, A28 (A68, A69), B14 (B64, B65), and 8C specificities were examined in this study.

1261	method	#abs	B64	B65	B14	B18	B8	B46	B38	A33	B51	B52	B78	B39	B3901	A34	A68	B67	B59	Cw1
class I	NIH-Std	1	no consensus																	
	NIH-Ext	2	50%	50%	50%															
	AHG	3	67%	67%	33%	33%	33%	33%												
	Luminex	27	100%	100%		100%	100%	100%	100%	100%	100%	96%	85%	78%	30%	78%	63%	59%	52%	81%
	Flow	3	no specificities assigned																	
	C1q	2	100%	100%			100%	50%												100%
	Other	2	100%	100%		100%	100%		50%	50%	100%	50%	100%	50%		50%	50%	50%	50%	50%
1261	method	#abs	Cw2	Cw8	Cw6	Cw7	Cw12	Cw5	Cw16	B37	A69	B54	B73	Cw10	B42	B55	Cw9	A80	B71	A43
	Luminex	27	74%	70%	70%	41%	70%	70%	93%	93%	67%	78%	67%	63%	52%	48%	44%	41%	33%	26%
	C1q	2	100%		50%	50%	100%													
	Other	2		50%																

1261	method	#abs	DR7	DR9	DR11	DR12	DR13	DR14	DR17	DR52	DR8	DR1	DR18	DR4	DQ7	DQA1*04	DQA1*05	DQA1*06	DQ2	DR1403	DR1404	DQ4
class II	NIH-Ext	1	no specificities assigned																			
	Luminex	25	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	96%	88%	100%	76%	76%	48%	24%	20%	20%	20%
	Flow	3	no specificities assigned																			
	C1q	1	no consensus																			
	Other	2	100%	100%	100%	100%	100%	100%	100%	100%	50%	100%	100%	50%	50%							

**Serum 1261** was found to be positive to B14 (B64, B65) by all methods. Additional reactivity to B8, B18, B46, B38, A33, B51, and B52 was reported by various methods, with Luminex reporting each with >90% agreement. C-locus reactivity was also reported by C1q, Luminex, and Luminex

PRA. Class II reactivity in this cell was strong, as Luminex and Luminex PRA reported reactivity to a number of DR specificities, including but not limited to DR7, DR9, DR11, DR12, DR13, DR14, DR17, DR52, DR1, and DR18. Each were reported with >90% agreement among Luminex labs.



1262	method	#abs	A2	A68	A69	A33	A28	A24	A2403	A25	A26	A10	A34	A66	A6601	A6602	A36	A11	A1101	A1102	B38	B39	B3901	B64	B35	B46	B49	B50
class I	NIH-Std	1	no consensus																									
	NIH-Ext	2					50%																					
	AHG	3	100%	67%	33%	67%	67%				67%	33%	67%				33%				33%	33%				33%	33%	33%
	Luminex	27	100%	100%	100%	100%		100%	30%	100%	100%		100%	81%	30%	30%	93%	85%	22%	26%	100%	85%	30%	100%	100%	100%	100%	100%
	Flow	3	no consensus																									
	C1q	2	100%	100%	100%	100%				100%	50%		100%	50%	50%	50%												
	Other	2	100%	100%	100%	50%		50%		100%	100%		100%	100%				50%						50%	50%			
1262	method	#abs	B75	B51	B52	B18	B53	B54	B56	B62	B63	B65	B71	B72	B77	B8	A1	A3	B59	B78	B7801	Cw10	Cw9	A43	A74	A203	B41	B57
	AHG	3	33%	33%																								
	Luminex	23	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	93%	89%	85%	22%	81%	78%	74%	41%	33%	30%	26%
	C1q	2									50%															50%		
	Other	2		50%	50%	50%	50%	50%	50%																			

1262	method	#abs	DR10	DR4	DR9	DQ4	DQ8	DQ9	DR53	DR14	DR1	DR7	DQ7	DQ2	DQA1*02	DQA1*03	DQA1*06	DQA1*04	DQA1*05	DR1404
class II	NIH-Ext	1	no specificities assigned																	
	Luminex	25	100%	100%	100%	96%	96%	96%	96%	92%	80%	76%	44%	76%	72%	72%	64%	48%	40%	24%
	Flow	3	no specificities assigned																	
	C1q	1	no consensus																	
	Other	2	100%	100%	100%	50%	50%	100%	50%	50%	50%	50%	50%							

For **Serum 1262**, reactivity to A2 and A28 (A68, A69), along with reactivity to a number of 10C, 8C, and 5C specificities, was reported by various methods. Agreement among Luminex labs was >90% for each specificity reported. Allele specific A\*24:03, A\*66:01, A\*66:02, A\*11:01, A\*11:02, and B\*39:01 reactivity was reported by some labs. For class II, Luminex and Lu-

minex PRA each reported reactivity to a number of DR and DQ specificities, with Luminex reporting reactivity to DR10, DR4, DR9, DQ4, DQ8, DQ9, DR53, and DR14 with >90% agreement. Additional reactivity to DQA1\*02, DQA1\*03, DQA1\*04, DQA1\*05, DQA1\*06 was also reported by a number of Luminex Labs.

1263	method	#abs	A29	A26	A33	A3	A30	A31	A32	A68	A11	A1101	A1102	A43	A34	A25	A66	A6601	A6602		
class I	NIH-Std	1	no consensus																		
	NIH-Ext	2	100%	50%																	
	AHG	3	100%	33%	33%	33%	33%	33%	33%	33%	33%										
	Luminex	27	96%	96%	96%	96%	93%	93%	89%	93%	78%	22%	22%	96%	96%	89%	78%	30%	30%		
	Flow	3	no specificities assigned																		
	C1q	2	100%											100%							
	Other	2	100%	100%	100%	100%	100%	100%	50%	50%	100%				100%	100%	100%				
1263	method	#abs	A1	A80	A36	A69	A28	A74	A23	B44	B45	B82	Cw7	Cw14	Cw16	Cw2	Cw4	Cw6			
	AHG	3		33%			33%						33%								
	Luminex	27	93%	93%	96%	74%		93%	59%	52%	30%	19%									
	C1q	2											50%	50%	50%	50%	50%	50%			
	Other	2	100%		50%	50%															

1263	method	#abs	DR7	DR9	DQ2	DR53	DQA1*05	
class II	NIH-Ext	1	no specificities assigned					
	Luminex	25	100%	100%	56%	92%	24%	
	Flow	3	no specificities assigned					
	C1q	1	NT					
	Other	2	100%	100%	50%			

**Serum 1263** was reported as positive to A29 by all methods. Additional reactivity to A26, A68, as well as reactivity to a number of 1C and 10C specificities, was reported by various methods. Reactivity to A29, A26, A33, A3, A30, A31, A68, A43, A34, A1, A80, and A36 was reported by >90% of

Luminex labs. Reactivity to DR7, DR9, and DQ2 was reported by Luminex and Luminex PRA, with Luminex reporting each with >90% agreement. Anti-DR53 reactivity was also reported by Luminex with >90% agreement.

1264	method	#abs	B18	B64	B65	B8	B7	B73	B27	B37	A3	B57	B58	Cw7	B78	B7801	B51	A33	Cw18				
class I	NIH-Std	1	no consensus																				
	NIH-Ext	2	50%																				
	AHG	3	67%	100%	100%	100%	33%		33%	33%	33%												
	Luminex	27	100%	100%	100%	100%	96%	93%	63%	85%	100%	100%	100%	100%	93%	22%	93%	74%	74%				
	Flow	3	no specificities assigned																				
	C1q	2	100%	100%	100%	100%		50%															
	Other	2	100%	100%	100%	100%	100%			50%		100%	100%				100%	50%					
1264	method	#abs	B55	B64	B42	B52	A32	A66	A6601	B59	B56	B67	B76	A74	B81	B61	B75	Cw12	Cw6	Cw1	Cw8	Cw4	
	Luminex	27	74%	70%	70%	70%	63%	37%	19%	70%		59%	59%	56%	52%	41%	33%	67%	48%	41%	37%		
	C1q	2																				50%	
	Other	2	50%	50%	50%	50%	50%	50%			50%												

For **Serum 1264**, anti-B18 and -B14(B64, B65) reactivity was reported. Additional reactivity to B7, B8, B73, B27, B37, A3, B57, B58, B78, and B51 was reported by various methods, with Luminex reporting each with >90% agreement. Anti-Cw7 reactivity was also reported by Luminex with good agreement (100%).

1264	method	#abs	DQ2	DQ5	DQ6	DR1	DR10	DR11	DR12	DR15	DR16	DR51	DR7	DR8	DR9	DR103	DR13	DR52	
class II	NIH-Ext	1	no specificities assigned																
	Luminex	25	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	92%	88%	84%	
	Flow	3	no specificities assigned																
	C1q	1	no consensus																
	Other	2	100%	100%	100%	100%	100%	50%	100%	100%	100%	50%	50%	100%	100%	100%	50%	50%	
1264	method	#abs	DR14	DQ4	DQ9	DQA1*02	DP17	DQA1*04	DQA1*01	DQA1*06	DQA1*03	DQ7	DQ8	DR4	DR1404	DQA1*05	DR1403		
	Luminex	25	68%	64%	36%	68%	56%	48%	40%	40%	36%	28%	28%	28%	24%	20%	20%		
	Other	2	50%	50%	50%														

For class II, DQ (DQ2, DQ5, DQ6) reactivity, along with reactivity to a number of DR antigens was reported by Luminex and Luminex PRA. Good agreement (>90% consensus) was achieved among Luminex labs in the reporting of a number of the specificities, including DQ2, DQ5, DQ6, DR1, DR10, DR11, DR12, DR15, and DR16. DQA1 (DQA1\*02, DQA1\*04, DQA1\*01, DQA1\*06, DQA1\*03) reactivity was also reported by some labs.

**NEXT MAILING DATE: March 6, 2019**  
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**Table 16. Summary of the 566th Serum Exchange (Serum #1257-1260) by NIH-Standard and NIH-Extended - class I**

Method: NIH-Standard											
<b>*** Serum 1257 ***</b>			<b>*** Serum 1258 ***</b>			<b>*** Serum 1259 ***</b>			<b>*** Serum 1260 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	NT			Antigen	Consensus	Inclusion	NT		
no consensus						no consensus					

Method: NIH-Extended											
<b>*** Serum 1257 ***</b>			<b>*** Serum 1258 ***</b>			<b>*** Serum 1259 ***</b>			<b>*** Serum 1260 ***</b>		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B38	100%	100%	B57	100%	100%	B13	100%	50%	B60	100%	75%
B49	100%	100%				B60	100%	50%	B41	50%	100%
B58	100%	100%				B61	100%	33%	B48	50%	100%
B51	100%	50%				B48	50%	100%	B61	50%	100%
A24	50%	100%				B41	50%	50%	B81	50%	100%
A32	50%	100%				B47	50%	50%			
B37	50%	100%									
B52	50%	100%									
A23	50%	75%									
A25	50%	67%									
B13	50%	50%									
B53	50%	50%									
B57	50%	50%									

**Table 17. Summary of the 566th Serum Exchange (Serum #1257-1260) by Antiglobulin and Flow Cytometry - class I**

Method: Antiglobulin											
*** Serum 1257 ***			*** Serum 1258 ***			*** Serum 1259 ***			*** Serum 1260 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A32	100%	100%	B57	67%	100%	B13	100%	100%	B41	67%	100%
A23	67%	100%	B58	33%	100%	B27	100%	100%	B60	67%	100%
A24	67%	100%	B63	33%	100%	B41	67%	100%	B61	67%	100%
A25	67%	100%	A2	33%	68%	B47	67%	100%	B7	67%	100%
Bw4	67%	100%				B60	67%	100%	B81	67%	100%
B35	33%	100%				B61	67%	100%	A32	33%	100%
B49	33%	100%				B7	67%	100%	A74	33%	100%
B50	33%	100%				B81	67%	100%	B13	33%	100%
B51	33%	100%				A66	33%	100%	B27	33%	100%
B55	33%	100%				B40	33%	100%	B40	33%	100%
B56	33%	100%				B44	33%	100%	B45	33%	100%
B57	33%	100%				B45	33%	100%	B46	33%	100%
B58	33%	100%				B48	33%	100%	B47	33%	100%
B62	33%	100%				B50	33%	100%	B48	33%	100%
B70	33%	100%				B42	33%	67%	B50	33%	100%
B75	33%	100%							A31	33%	40%

Method: Flow Cytometry											
*** Serum 1257 ***			*** Serum 1258 ***			*** Serum 1259 ***			*** Serum 1260 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

**Table 18. Summary of the 566th Serum Exchange (Serum #1257-1260) by Other - class I**

Method: Other											
*** Serum 1257 ***			*** Serum 1258 ***			*** Serum 1259 ***			*** Serum 1260 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A23	100%	100%	A2	100%	100%	B13	100%	100%	B13	100%	100%
A24	100%	100%	A25	100%	100%	B27	100%	100%	B27	100%	100%
A25	100%	100%	A26	100%	100%	B41	100%	100%	B42	100%	100%
A32	100%	100%	A33	100%	100%	B44	100%	100%	B48	100%	100%
B35	100%	100%	A34	100%	100%	B45	100%	100%	B60	100%	100%
B49	100%	100%	A66	100%	100%	B47	100%	100%	B61	100%	100%
B50	100%	100%	A68	100%	100%	B48	100%	100%	B7	100%	100%
B51	100%	100%	A69	100%	100%	B49	100%	100%	A2	50%	100%
B52	100%	100%	B57	100%	100%	B50	100%	100%	A29	50%	100%
B57	100%	100%	B58	100%	100%	B60	100%	100%	A30	50%	100%
B62	100%	100%	A29	50%	100%	B61	100%	100%	A31	50%	100%
B63	100%	100%	A31	50%	100%	B7	100%	100%	A32	50%	100%
B71	100%	100%	A32	50%	100%	B81	100%	100%	A33	50%	100%
B72	100%	100%	Cw7	50%	100%	B82	100%	100%	A74	50%	100%
B75	100%	100%				B35	50%	100%	B41	50%	100%
B13	50%	100%				B39	50%	100%	B47	50%	100%
B18	50%	100%				B42	50%	100%	B50	50%	100%
B44	50%	100%				B51	50%	100%	B55	50%	100%
B45	50%	100%				B55	50%	100%	B81	50%	100%
B53	50%	100%				B67	50%	100%	Cw16	50%	100%
B58	50%	100%				B71	50%	100%	Cw7	50%	100%
B59	50%	100%				B72	50%	100%			
B64	50%	100%				B73	50%	100%			
B65	50%	100%				Cw2	50%	100%			
B78	50%	100%									

Other = Luminex PRA

**Table 19. Summary of the 566<sup>th</sup> Serum Exchange (Serum #1257-1260) by Luminex - class I**

Method: Luminex											
*** Serum 1257 ***			*** Serum 1258 ***			*** Serum 1259 ***			*** Serum 1260 ***		
28 typing Labs			28 typing Labs			27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A25	96%	100%	A2	93%	100%	B13	100%	100%	A2	100%	100%
A32	96%	100%	B57	93%	100%	B27	100%	100%	A29	100%	100%
B57	96%	100%	B58	93%	100%	B41	100%	100%	A31	100%	100%
B58	96%	100%	B73	93%	100%	B44	100%	100%	A32	100%	100%
A23	93%	100%	Cw7	93%	50%	B45	100%	100%	A33	100%	100%
A24	93%	100%	Cw12	93%	33%	B47	100%	100%	A74	100%	100%
B13	93%	100%	Cw8	82%	54%	B48	100%	100%	B13	100%	100%
B35	93%	100%	B46	79%	100%	B49	100%	100%	B27	100%	100%
B37	93%	100%	B76	79%	100%	B50	100%	100%	B41	100%	100%
B38	93%	100%	Cw10	79%	40%	B60	100%	100%	B42	100%	100%
B44	93%	100%	A26	75%	100%	B61	100%	100%	B45	100%	100%
B47	93%	100%	A43	75%	100%	B7	100%	100%	B47	100%	100%
B49	93%	100%	B63	75%	100%	B73	100%	100%	B48	100%	100%
B50	93%	100%	Cw9	75%	100%	Cw2	100%	62%	B50	100%	100%
B51	93%	100%	A29	71%	100%	B42	89%	50%	B60	100%	100%
B52	93%	100%	A34	71%	100%	B55	89%	50%	B61	100%	100%
B53	93%	100%	A69	71%	100%	B62	85%	100%	B7	100%	100%
B56	93%	100%	B62	71%	100%	B76	85%	100%	B73	100%	100%
B59	93%	100%	A31	68%	100%	B81	85%	100%	Cw10	100%	92%
B62	93%	100%	A32	68%	100%	B35	85%	75%	Cw7	100%	91%
B63	93%	100%	A33	68%	100%	B67	85%	67%	A30	100%	88%
B72	93%	100%	A74	68%	100%	B72	85%	67%	Cw9	100%	75%
B75	93%	100%	B77	68%	100%	B51	81%	100%	Cw17	96%	100%
B77	93%	100%	A25	64%	100%	B53	81%	100%	Cw16	93%	100%
B27	93%	80%	A66	64%	100%	B71	81%	50%	B46	89%	67%
B71	93%	67%	A68	64%	100%	B59	78%	50%	B49	85%	100%
B54	86%	100%	Cw15	64%	100%	B82	74%	0%	B81	85%	100%
B55	86%	100%	Cw17	64%	100%	B38	70%	100%	B55	74%	100%
B64	86%	100%	Cw16	54%	100%	B78	70%	100%	Cw8	74%	100%
B45	86%	50%	B75	46%	100%	B18	67%	100%	B8	74%	75%
B46	86%	50%	Cw14	46%	100%	A66	67%	50%	Cw2	70%	100%
B67	82%	100%	Cw1	43%	100%	A6602	63%	100%	A66	70%	67%
B78	82%	100%	Cw18	39%	100%	B39	63%	100%	Cw12	67%	100%
B18	82%	75%	B13	32%	100%	Cw17	48%	100%	A6602	56%	100%
B65	75%	100%	A203	25%	100%	B77	44%	100%	B67	48%	100%

**Table 19. Summary of the 566<sup>th</sup> Serum Exchange (Serum #1257-1260) by Luminex - class I**

<b>Method: Luminex - cont.</b>											
<b>*** Serum 1257 ***</b>			<b>*** Serum 1258 ***</b>			<b>*** Serum 1259 ***</b>			<b>*** Serum 1260 ***</b>		
28 typing Labs			28 typing Labs			27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B39	71%	50%	A6601	25%	100%	B2708	41%	100%	Cw14	48%	100%
Bw4	46%	100%	A6602	21%	100%	B52	37%	100%	Cw1	44%	100%
B41	39%	100%				B75	37%	100%	B2708	41%	100%
A2403	36%	100%				B56	33%	100%	B54	33%	100%
B3901	21%	100%				B8101	30%	100%	B8101	33%	100%
B2708	18%	100%				B37	19%	100%	Cw15	33%	100%
B7801	18%	100%							A203	26%	100%
B8	18%	100%							A36	26%	100%
									A69	26%	100%
									B62	26%	100%
									B72	26%	100%
									A68	22%	100%
									B56	22%	100%
									B39	19%	100%
									B57	19%	100%
									B703	19%	100%



**Table 20. Summary of the 566<sup>th</sup> Serum Exchange (Serum #1257-1260) by C1q - class I**

Method: C1q											
*** Serum 1257 ***			*** Serum 1258 ***			*** Serum 1259 ***			*** Serum 1260 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A23	100%	100%	Cw12	100%	100%	B13	100%	100%	B41	100%	100%
A24	100%	100%	Cw7	100%	100%	B27	100%	100%	B48	100%	100%
A25	100%	100%				B41	100%	100%	B60	100%	100%
A32	100%	100%				B47	100%	100%	B61	100%	100%
B13	100%	100%				B48	100%	100%	B73	100%	100%
B27	100%	100%				B60	100%	100%	Cw10	100%	100%
B37	100%	100%				B61	100%	100%	B81	50%	100%
B38	100%	100%				B7	100%	100%	B8101	50%	100%
B44	100%	100%				B73	100%	100%	Cw9	50%	100%
B49	100%	100%				A66	50%	100%			
B51	100%	100%				A6602	50%	100%			
B52	100%	100%				B2708	50%	100%			
B53	100%	100%				B81	50%	100%			
B57	100%	100%				B8101	50%	100%			
B58	100%	100%									
B59	100%	100%									
B63	100%	100%									
B77	100%	100%									
A2403	50%	100%									
B46	50%	100%									
B47	50%	100%									
B50	50%	100%									
B75	50%	100%									
Cw1	50%	100%									
Cw14	50%	100%									
Cw16	50%	100%									
Cw2	50%	100%									
Cw4	50%	100%									
Cw6	50%	100%									
Cw7	50%	100%									
Cw8	50%	100%									

**Table 21. Summary of the 566<sup>th</sup> Serum Exchange (Serum #1257-1260) by NIH-Extended and Flow Cytometry- class II**

Method: NIH-Extended											
<b>*** Serum 1257 ***</b>			<b>*** Serum 1258 ***</b>			<b>*** Serum 1259 ***</b>			<b>*** Serum 1260 ***</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 1257 ***</b>			<b>*** Serum 1258 ***</b>			<b>*** Serum 1259 ***</b>			<b>*** Serum 1260 ***</b>		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			NEG	100%	100%

**Table 22. Summary of the 566<sup>th</sup> Serum Exchange (Serum #1257-1260) by Other - class II**

Method: Other											
<b>*** Serum 1257 ***</b>			<b>*** Serum 1258 ***</b>			<b>*** Serum 1259 ***</b>			<b>*** Serum 1260 ***</b>		
2 typing Labs			2 typing Labs			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ6	100%	100%	DR7	100%	100%	no consensus			no consensus		
DR13	100%	100%	DR9	100%	100%						
DR12	50%	100%	DQ2	50%	100%						

Other = Luminex PRA

**Table 23. Summary of the 566<sup>th</sup> Serum Exchange (Serum #1257-1260) by Luminex - class II**

Method: Luminex											
*** Serum 1257 ***			*** Serum 1258 ***			*** Serum 1259 ***			*** Serum 1260 ***		
25 typing Labs			26 typing Labs			21 typing Labs			18 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ6	88%	83%	DR7	100%	100%	DR4	57%	100%	DQ2	56%	20%
DR13	84%	100%	DR9	96%	100%	NEG	43%	100%	DQA1*05	33%	100%
DQ8	80%	33%	DR53	92%	100%				NEG	28%	100%
DR12	76%	50%	DQ2	81%	100%						
DQ9	76%	33%	DQA1*05	23%	100%						
DR4	48%	20%	DQ9	19%	100%						
DQA1*03	20%	100%									
DQA1*01	16%	100%									
DR103	12%	100%									
NEG	8%	100%									

**Table 24. Individual laboratory results for Serum #1257 - 1260 by NIH-Standard and NIH-Extended - class I**

		**** Serum 1257 ****							**** Serum 1258 ****			**** Serum 1259 ****						**** Serum 1260 ****							
Ctr	% POS	B17							Other	% POS		Other	% POS	B40					Other	% POS				Other	Method
786	8	+								NT			8	+						NT					STD

STD = NIH-Standard

		**** Serum 1257 ****							**** Serum 1258 ****			**** Serum 1259 ****						**** Serum 1260 ****							
Ctr	% POS	B38	B49	B58	B51	A24	A32		Other	% POS	B57	Other	% POS	B13	B60	B61	B48	B41	Other	% POS	B60	B41	B48	Other	Method
725	46	+	+	+	+				B57,B53,A25,A23 >	7	+		19	+	+	+		+	B47	8	+				EXT
3753	54	+	+	+	+	+	+		B52	6	+		20	+	+	+	+			25	+	+	+	B61,B81	EXT

EXT = NIH-Extended

**Table 25. Individual laboratory results for Serum #1257 - 1260 by Antiglobulin and Flow Cytometry - class I**

		**** Serum 1257 ****										**** Serum 1258 ****					**** Serum 1259 ****										**** Serum 1260 ****														
Ctr	% POS	A32	A23	A24	A25	Bw4	B35	B49	B50	Other	% POS	B57	B58	B63	A2	Other	% POS	B13	B27	B41	B47	B60	B61	B7	B81	A66	B40	B44	Other	% POS	B41	B60	B61	B7	B81	A32	A74	B13	Other	Method	
774	92	+	+	+	+	+	+		+	B70,B62,B75>	38	+	+	+	+		62	+	+	+	+	+	+	+	+	+		+	B48,B50>	76	+	+	+	+	+	+	+	+	+	B48,B50>	Antiglobulin
786	33	+						+		B51,B57,B58							29	+	+								+		8										B40	Antiglobulin	
910		+	+	+	+	+						+						+	+	+	+	+	+	+	+															Antiglobulin	

		**** Serum 1257 ****										**** Serum 1258 ****					**** Serum 1259 ****										**** Serum 1260 ****												
Ctr	% POS									Other	% POS				Other	% POS												Other	% POS								Other	Method	
3224	92										95					95													95										FC
5214	85										67					92													80										FC
8067	84										63					91													86										FC

FC = Flow Cytometry

**Table 26. Individual laboratory results for Serum #1257 - 1260 by Other - class I**

**** Serum 1257 ****															**** Serum 1258 ****															
Ctr	% POS	A23	A24	A25	A32	B35	B49	B50	B51	B52	B57	B62	B63	B71	B72	B75	Other	% POS	A2	A25	A26	A33	A34	A66	A68	A69	B57	B58	Other	Method
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B53,B64,B65 >		+	+	+	+	+	+	+	+	+	+	Cw7	Other
3753	90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B13,B44,B45	80	+	+	+	+	+	+	+	+	+	+	A29,A31,A32	Other

**** Serum 1259 ****															**** Serum 1260 ****														
Ctr	% POS	B13	B27	B41	B44	B45	B47	B48	B49	B50	B60	B61	B7	B81		Other	% POS	B13	B27	B42	B48	B60	B61	B7				Other	Method
2400		+	+	+	+	+	+	+	+	+	+	+	+	+		B51,B82,B55,B67 >		+	+	+	+	+	+	+				A2,A29,A30,A31 >	Other
3753	74	+	+	+	+	+	+	+	+	+	+	+	+	+		B82,B42	74	+	+	+	+	+	+	+				B50,B47,B55,B41 >	Other

Other = Luminex PRA

**Table 27. Individual laboratory results for Serum #1257 by Luminex - class I**

		**** Serum 1257 ****																																							
Ctr	% POS	A25	A32	B57	B58	A23	A24	B13	B35	B37	B38	B44	B47	B49	B50	B51	B52	B53	B56	B59	B62	B63	B72	B75	B77	B27	B71	B54	B55	B64	B45	B46	B67	B78	B18	B65	B39	Other	Method		
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B41,B8	LMX		
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+			A2403	LMX	
774	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw4	LMX	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B41,A2403,B2708	LMX	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw4	LMX	
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw4	LMX	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B41,A2403,B2708,B7801	LMX	
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B76,B41,B8,A2403 >	LMX	
3632	92	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B41,Bw4	LMX	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B41,Bw4	LMX	
3766	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B41,B8,A2403,B2708 >	LMX	
3808	28	+	+	+	+																																	A2,A66,A26,A34 >	LMX		
3966	44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B76	LMX		
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B41,B8,Bw4,Cw18	LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B41,Bw4	LMX	
5219	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A9,B15,B70,B21 >	LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,B7801,B3901,Bw4	LMX	
6649	44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,Bw4	LMX	
8045	41	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,A2403	LMX		
8048	57	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw4,A2403,B7801,B3901	LMX		
8058	100																																							LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B76,B41,B42,B8 >	LMX
8086	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B41,Bw4	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw4,B5C,B8C	LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,B82,B14,Bw4 >	LMX



**Table 28. Individual laboratory results for Serum #1258 by Luminex - class I**

		**** Serum 1258 ****																																	
Ctr	% POS	A2	B57	B58	B73	Cw7	Cw12	Cw8	B46	B76	Cw10	A26	A43	B63	Cw9	A29	A34	A69	B62	A31	A32	A33	A74	B77	A25	A66	A68	Cw15	Cw17	Cw16	B75	Cw14	Other	Method	
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B13,Cw1,Cw18,B*15:02	LMX	
725		+	+	+	+	+	+																												LMX
774	36	+	+	+	+	+	+	+	+	+	+																								LMX
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B13,Cw1,Cw18 >	LMX
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+	+	+			+				LMX
1647		+	+	+	+	+	+	+	+	+	+				+													+							LMX
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+		+		+	+						LMX
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	A203,Cw1,Cw18,A6601 >	LMX
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B13,Cw1,Cw18,A6601,B*15:02>	LMX
3632	93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B13	LMX
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw1,Cw18	LMX
3766	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B13,Cw1,Cw18,A6601 >	LMX
3808	0																																	LMX	
3966	45	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,B13,Cw1,Cw18	LMX
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,B15,B13,Cw1 >	LMX
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
5219	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B15,A10,B82 >	LMX
5462		+	+	+	+	+	+	+	+	+	+			+	+				+								+	+					A203	LMX	
6649	41	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78	LMX
8045	27	+	+	+	+	+	+					+	+			+	+	+		+	+	+	+			+	+						A203	LMX	
8048	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+				A203,A6601,A6602	LMX	
8058	NT																																	LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B13,Cw1,Cw18	LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,B13,Cw1,Cw18	LMX
8086	10	+	+	+	+	+	+	+	+																										LMX
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw1,Cw18	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw1,A1C	LMX
8103		+	+	+	+	+	+					+	+	+								+	+			+	+							A203,B15,A6601	LMX

**Table 29. Individual laboratory results for Serum #1259 by Luminex - class I**

		**** Serum 1259 ****																																					
Ctr	% POS	B13	B27	B41	B44	B45	B47	B48	B49	B50	B60	B61	B7	B73	Cw2	B42	B55	B62	B76	B81	B35	B67	B72	B51	B53	B71	B59	B82	B38	B78	B18	A66	A6602	B39	Cw17	B77	Other	Method	
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,B75,B56,A*66:02	LMX	
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,B2708	LMX	
774	62	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,B75,B56,B8101 >	LMX		
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,B75,B56,B8101 >	LMX	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B2708,B7801,B8201	LMX	
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,B75,B56,B2708 >	LMX	
3632	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,B75,B37	LMX	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
3766	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,B75,B56,B37 >	LMX	
3808	21	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,B8101,B2708	LMX	
3966	47	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,B75,B56,B37	LMX	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,B52,B75,B56 >	LMX
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
5219	21	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,Cw403,A11 >	LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B2708,B8201,A*66:02	LMX	
6649	21	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8045	21	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,B2708	LMX	
8048	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B2708,B7801,B8201 >	LMX	
8058	NT																																					LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B75	LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,B75,B56,Cw10 >	LMX
8086	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B56	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B12C	LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B70,B52 >	LMX

**Table 30. Individual laboratory results for Serum #1260 by Luminex - class I**

		**** Serum 1260 ****																																					
Ctr	% POS	A2	A29	A31	A32	A33	A74	B13	B27	B41	B42	B45	B47	B48	B50	B60	B61	B7	B73	Cw10	Cw7	A30	Cw9	Cw17	Cw16	B46	B49	B81	B55	Cw8	B8	Cw2	A66	Other	Method				
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B54,B56,B67,Cw1,A*30:01>	LMX			
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,Cw12,B2708	LMX			
774	84	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B203,B62,B54,B56 >	LMX			
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw12	LMX		
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A6602	LMX	
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw12	LMX		
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B54,B67,B72 >	LMX	
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B62,B54,B56,B67 >	LMX	
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B62,B54,B56,B67 >	LMX	
3632	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B67,Cw12,A6602,A*30:01	LMX		
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B62,B54,B56,B67 >	LMX	
3766	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B62,B54,B56,B67 >	LMX	
3808	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,B8101,B2708,A6602	LMX	
3966	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B54,Cw12	LMX	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B62,B54,B67,A68 >	LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B67	LMX	
5219	40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A203,B40,B21 >	LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B8101,B2708,A6602	LMX	
6649	41	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A36	LMX	
8045	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B703,B2708	LMX	
8048	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B62,B54,B72 >	LMX	
8058	NT																																					LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B67,Cw1,Cw14,Cw12 >	LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B62,B54,B56,B67 >	LMX
8086	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B67,A69,A36,Cw1 >	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B67,Cw1,Cw14,Cw12 >	LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B40,B703,B8101 >	LMX

**Table 31. Individual laboratory results for Serum #1257 - 1260 by C1q - class I**

Ctr	**** Serum 1257 ****															**** Serum 1258 ****				**** Serum 1259 ****										**** Serum 1260 ****						Method										
	% POS	A23	A24	A25	A32	B13	B27	B37	B38	B44	B49	B51	B52	B53	B57	B58	B59	B63	B77	Other	% POS	Cw12	Cw7	Other	% POS	B13	B27	B41	B47	B48	B60	B61	B7	B73	Other		% POS	B41	B48	B60	B61	B73	Cw10	Other		
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,B50>		+	+			+	+	+	+	+	+	+	+	+	+	+	B8101,B2708		+	+	+	+	+	+	B8101	C1q
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+			+	+	+	+	+	+	+	+	+	+	A66,B81		+	+	+	+	+	+	B81,Cw9	C1q	

**Table 32. Individual laboratory results for Serum #1257 - 1260 by NIH-Extended, Flow Cytometry and Other - class II**

Ctr	**** Serum 1257 ****					**** Serum 1258 ****					**** Serum 1259 ****					**** Serum 1260 ****					Method
	% POS				Other	% POS				Other	% POS				Other	% POS				Other	
3753	56					16					29					47					EXT

EXT = NIH-Extended

Ctr	**** Serum 1257 ****					**** Serum 1258 ****					**** Serum 1259 ****					**** Serum 1260 ****					Method
	% POS				Other	% POS				Other	% POS				Other	% POS				Other	
3224	49					64					29					0					FC
5214	33					28					10					0					FC
8067	35					25					9					0					FC

FC = Flow Cytometry

Ctr	**** Serum 1257 ****					**** Serum 1258 ****					**** Serum 1259 ****					**** Serum 1260 ****					Method
	% POS	DQ6	DR13	DR12	Other	% POS	DR7	DR9	DQ2	Other	% POS	DR4			Other	% POS				Other	
2400		+	+	+			+	+			NT					NT					Other
3753	37	+	+			33	+	+	+		13	+				0					Other

Other = Luminex PRA

**Table 33. Individual laboratory results for Serum #1257 -1260 by Luminex - class II**

Ctr	**** Serum 1257 ****										**** Serum 1258 ****							**** Serum 1259 ****			**** Serum 1260 ****				Method	
	% POS	DQ6	DR13	DQ8	DR12	DQ9	DR4	DQA1*03	DQA1*01	Other	% POS	DR7	DR9	DR53	DQ2	DQA1*05	DQ9	Other	% POS	DR4	Other	% POS	DQ2	DQA1*05		Other
615		+	+	+	+	+	+			DR103, DRB1*12:01, DRB1*04:02		+	+	+	+					+			+	+	DR8,DR13,DR14, DQA1*05:01	LMX
774	20										23	+							0			0				LMX
910		+	+	+		+						+	+	+	+											LMX
1647		+	+	+	+	+				DPA1*01,DPA1*03		+	+	+		+				+						LMX
2400		+	+	+	+	+						+	+	+	+		+									LMX
3224		+	+	+	+	+						+	+	+	+					+						LMX
3582		+	+	+	+	+	+	+	+	DR103, DQA1*01:03, DRB1*12:01, DQA1*03:02, DRB1*04:02		+	+	+	+	+	DQA1*05:01		+	DRB1*04:04, DRB1*04:01			+	DQA1*05:01		LMX
3632	49	+	+	+	+	+	+	+			64	+	+	+	+		+		0			37	+			LMX
3753		+	+	+	+	+				DRB1*12:01		+	+	+	+					+			+			LMX
3766	69	+	+	+	+	+	+			DRB1*13:01, DRB1*04:02	63	+	+	+	+	+	DQA1*05:01/ DQB1*02:01		34	+		32	+	+	DQA1*05:01/ DQB1*02:01	LMX
3808	0										2	+	+	+					0			0				LMX
3966	18	+	+	+	+	+	+	+	+			+	+	+	+											LMX
4322		+	+	+	+	+	+	+	+			+	+	+	+		DQA1*04			+				+		LMX
5214		+	+	+		+						+	+	+	+		+			weak DR4						LMX
5219	2	+		+							2	+	+	+	+				0			0				LMX
5462		+	+	+	+	+				DRB1*12:01		+	+	+	+					0			+			LMX
6649	7	+	+		+						5	+	+	+	+				3	+		0				LMX
8045	0										2	+	+						0			0				LMX
8048	20	+	+		+		+	+			6	+	+	+	+		+		0			1	+			LMX
8058	100	+	+	+	+	+	+				100	+	+	+	+		+		100	+		100	+			LMX
8062		+	+	+	+	+	+					+	+	+	+				NT			NT				LMX
8082		+	+	+	+	+	+	+	+	DR103		+	+	+	+	+				+			+	+	DR8,DR13,DR14	LMX
8086	12	+	+	+	+	+	+				11	+	+	+	+				0			1	+			LMX
8090		+	+	+	+	+						+	+	+	+				0					+		LMX
8100		+	+	+	+	+	+					+	+	+	+					+			+			LMX
8103												+	+	+						+						LMX

**Table 34. Summary of the 567th Serum Exchange (Serum #1261-1264) by NIH-Standard and NIH-Extended - class I**

Method: NIH-Standard											
<b>*** Serum 1261 ***</b>			<b>*** Serum 1262 ***</b>			<b>*** Serum 1263 ***</b>			<b>*** Serum 1264 ***</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 1261 ***</b>			<b>*** Serum 1262 ***</b>			<b>*** Serum 1263 ***</b>			<b>*** Serum 1264 ***</b>		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B14	50%	100%	A28	50%	88%	A29	100%	100%	B18	50%	100%
B64	50%	100%				A26	50%	75%			
B65	50%	100%									

**Table 35. Summary of the 567th Serum Exchange (Serum #1261-1264) by Antiglobulin and Flow Cytometry- class I**

Method: Antiglobulin											
*** Serum 1261 ***			*** Serum 1262 ***			*** Serum 1263 ***			*** Serum 1264 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B64	67%	100%	A2	100%	100%	A29	100%	100%	B64	100%	100%
B65	67%	100%	A26	67%	100%	A30	33%	100%	B65	100%	100%
B14	33%	100%	A28	67%	100%	A31	33%	100%	B8	100%	100%
B46	33%	100%	A33	67%	100%	A80	33%	100%	B18	67%	100%
B8	33%	100%	A34	67%	100%	Cw7	33%	100%	A3	33%	100%
B18	33%	80%	A68	67%	100%	A11	33%	67%	B37	33%	100%
			A10	33%	100%	A26	33%	67%	B7	33%	100%
			A69	33%	100%	A28	33%	67%	B27	33%	80%
			B38	33%	100%	A68	33%	67%			
			B39	33%	100%	A3	33%	62%			
			B46	33%	100%	A32	33%	43%			
			B49	33%	100%	A33	33%	40%			
			B51	33%	100%						
			B75	33%	100%						
			B50	33%	75%						
			A36	33%	67%						

  

Method: Flow Cytometry											
*** Serum 1261 ***			*** Serum 1262 ***			*** Serum 1263 ***			*** Serum 1264 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		



**Table 36. Summary of the 567th Serum Exchange (Serum #1261-1264) by Other - class I**

Method: Other											
*** Serum 1261 ***			*** Serum 1262 ***			*** Serum 1263 ***			*** Serum 1264 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B18	100%	100%	A2	100%	100%	A1	100%	100%	B18	100%	100%
B51	100%	100%	A25	100%	100%	A11	100%	100%	B51	100%	100%
B64	100%	100%	A26	100%	100%	A25	100%	100%	B57	100%	100%
B65	100%	100%	A34	100%	100%	A26	100%	100%	B58	100%	100%
B78	100%	100%	A66	100%	100%	A29	100%	100%	B64	100%	100%
B8	100%	100%	A68	100%	100%	A3	100%	100%	B65	100%	100%
A33	50%	100%	A69	100%	100%	A30	100%	100%	B7	100%	100%
A34	50%	100%	A11	50%	100%	A31	100%	100%	B8	100%	100%
A68	50%	100%	A24	50%	100%	A33	100%	100%	A32	50%	100%
B38	50%	100%	A33	50%	100%	A34	100%	100%	A33	50%	100%
B39	50%	100%	B18	50%	100%	A66	100%	100%	A66	50%	100%
B52	50%	100%	B35	50%	100%	A32	50%	100%	B37	50%	100%
B59	50%	100%	B51	50%	100%	A36	50%	100%	B42	50%	100%
B67	50%	100%	B52	50%	100%	A68	50%	100%	B52	50%	100%
Cw1	50%	100%	B53	50%	100%	A69	50%	100%	B54	50%	100%
Cw8	50%	100%	B56	50%	100%				B55	50%	100%
			B64	50%	100%				B56	50%	100%

Other = Luminex PRA

**Table 37. Summary of the 567<sup>th</sup> Serum Exchange (Serum #1261-1264) by Luminex - class I**

Method: Luminex											
*** Serum 1261 ***			*** Serum 1262 ***			*** Serum 1263 ***			*** Serum 1264 ***		
27 typing Labs			27 typing Labs			27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A33	100%	100%	A2	100%	100%	A26	96%	100%	B18	100%	100%
B18	100%	100%	A24	100%	100%	A29	96%	100%	B57	100%	100%
B64	100%	100%	A25	100%	100%	A33	96%	100%	B64	100%	100%
B65	100%	100%	A26	100%	100%	A34	96%	100%	B65	100%	100%
B8	100%	100%	A33	100%	100%	A36	96%	100%	B8	100%	100%
B51	100%	80%	A34	100%	100%	A43	96%	100%	A3	100%	86%
B38	100%	75%	A68	100%	100%	A3	96%	86%	B58	100%	67%
B46	100%	67%	A69	100%	100%	A1	93%	100%	Cw7	100%	55%
B52	96%	100%	B18	100%	100%	A30	93%	100%	B7	96%	100%
Cw16	93%	71%	B35	100%	100%	A31	93%	100%	B73	93%	100%
B37	93%	67%	B38	100%	100%	A74	93%	100%	B78	93%	33%
B78	85%	100%	B46	100%	100%	A80	93%	100%	B51	93%	3%
Cw1	81%	33%	B49	100%	100%	A68	93%	86%	B37	85%	33%
B39	78%	100%	B50	100%	100%	A25	89%	100%	A33	74%	100%
B54	78%	100%	B51	100%	100%	A32	89%	100%	Cw18	74%	100%
A34	78%	50%	B52	100%	100%	A66	78%	100%	B55	74%	75%
Cw2	74%	100%	B53	100%	100%	A11	78%	50%	B52	70%	100%
Cw12	70%	100%	B54	100%	100%	A69	74%	100%	B54	70%	100%
Cw5	70%	100%	B56	100%	100%	A23	59%	100%	B59	70%	100%
Cw6	70%	100%	B62	100%	100%	B44	52%	100%	B42	70%	25%
Cw8	70%	100%	B63	100%	100%	A6601	30%	100%	Cw12	67%	100%
A69	67%	100%	B64	100%	100%	A6602	30%	100%	A32	63%	100%
B73	67%	100%	B65	100%	100%	B45	30%	100%	B27	63%	100%
A68	63%	100%	B71	100%	100%	A1101	22%	100%	B67	59%	100%
Cw10	63%	50%	B72	100%	100%	A1102	22%	100%	B76	59%	0%
B67	59%	100%	B75	100%	100%	B82	19%	100%	A74	56%	100%
B42	52%	100%	B77	100%	100%				B81	52%	100%
B59	52%	100%	B8	100%	80%				Cw6	48%	100%
B55	48%	100%	A1	96%	80%				B61	41%	100%
Cw9	44%	100%	A36	93%	100%				Cw1	41%	100%
A80	41%	100%	A3	93%	86%				A66	37%	100%
Cw7	41%	100%	B59	89%	100%				Cw8	37%	100%
B71	33%	100%	A11	85%	100%				B75	33%	100%
B3901	30%	100%	B39	85%	100%				B7801	22%	100%
A43	26%	100%	B78	85%	100%				A6601	19%	100%

**Table 37. Summary of the 567<sup>th</sup> Serum Exchange (Serum #1261-1264) by Luminex - class I**

<b>Method: Luminex - cont.</b>											
<b>*** Serum 1261 ***</b>			<b>*** Serum 1262 ***</b>			<b>*** Serum 1263 ***</b>			<b>*** Serum 1264 ***</b>		
27 typing Labs			27 typing Labs			27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A26	22%	100%	A66	81%	100%				Cw14	19%	100%
B7801	22%	100%	Cw10	81%	50%				Cw5	19%	100%
Cw14	22%	100%	Cw9	78%	100%				Cw9	19%	100%
Cw18	22%	100%	A43	74%	100%						
Cw15	19%	100%	A74	41%	100%						
			A203	33%	100%						
			A2403	30%	100%						
			A6601	30%	100%						
			A6602	30%	100%						
			B3901	30%	100%						
			B41	30%	100%						
			A1102	26%	100%						
			B57	26%	100%						
			A1101	22%	100%						
			B7801	22%	100%						
			A30	19%	100%						
			B58	19%	100%						
			A1102	25%	100%						
			B57	25%	100%						
			A1101	21%	100%						
			B7801	21%	100%						

**Table 38. Summary of the 567<sup>th</sup> Serum Exchange (Serum #1261-1264) by C1q - class I**

Method: C1q											
<b>*** Serum 1261 ***</b>			<b>*** Serum 1262 ***</b>			<b>*** Serum 1263 ***</b>			<b>*** Serum 1264 ***</b>		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B64	100%	100%	A2	100%	100%	A29	100%	100%	B18	100%	100%
B65	100%	100%	A25	100%	100%	A43	100%	100%	B64	100%	100%
B8	100%	100%	A33	100%	100%	Cw14	50%	100%	B65	100%	100%
Cw1	100%	100%	A34	100%	100%	Cw16	50%	100%	B8	100%	100%
Cw12	100%	100%	A68	100%	100%	Cw2	50%	100%	B73	50%	100%
B46	50%	100%	A69	100%	100%	Cw4	50%	100%	Cw4	50%	100%
Cw2	50%	100%	A203	50%	100%	Cw6	50%	100%			
Cw6	50%	100%	A26	50%	100%	Cw7	50%	100%			
Cw7	50%	100%	A66	50%	100%						
			A6601	50%	100%						
			A6602	50%	100%						
			B63	50%	100%						

**Table 39. Summary of the 567<sup>th</sup> Serum Exchange (Serum #1261-1264) by NIH-Extended, Flow Cytometry, and C1q - class II**

Method: NIH-Extended											
<b>*** Serum 1261 ***</b>			<b>*** Serum 1262 ***</b>			<b>*** Serum 1263 ***</b>			<b>*** Serum 1264 ***</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 1261 ***</b>			<b>*** Serum 1262 ***</b>			<b>*** Serum 1263 ***</b>			<b>*** Serum 1264 ***</b>		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

**Table 40. Summary of the 567<sup>th</sup> Serum Exchange (Serum #1261-1264) by Other and C1q - class II**

Method: Other											
<b>*** Serum 1261 ***</b>			<b>*** Serum 1262 ***</b>			<b>*** Serum 1263 ***</b>			<b>*** Serum 1264 ***</b>		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR1	100%	100%	DQ9	100%	100%	DR7	100%	100%	DQ2	100%	100%
DR11	100%	100%	DR10	100%	100%	DR9	100%	100%	DQ5	100%	100%
DR12	100%	100%	DR4	100%	100%	DQ2	50%	100%	DQ6	100%	100%
DR13	100%	100%	DR9	100%	100%				DR1	100%	100%
DR14	100%	100%	DQ4	50%	100%				DR10	100%	100%
DR17	100%	100%	DQ7	50%	100%				DR103	100%	100%
DR18	100%	100%	DQ8	50%	100%				DR12	100%	100%
DR52	100%	100%	DR1	50%	100%				DR15	100%	100%
DR7	100%	100%	DR14	50%	100%				DR16	100%	100%
DR9	100%	100%	DR53	50%	100%				DR8	100%	100%
DQ7	50%	100%	DR7	50%	100%				DR9	100%	100%
DR4	50%	100%							DQ4	50%	100%
DR8	50%	100%							DQ9	50%	100%
									DR11	50%	100%
									DR13	50%	100%
									DR14	50%	100%
									DR51	50%	100%
									DR52	50%	100%
									DR7	50%	100%

Other = Luminex PRA

Method: C1q											
<b>*** Serum 1261 ***</b>			<b>*** Serum 1262 ***</b>			<b>*** Serum 1263 ***</b>			<b>*** Serum 1264 ***</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			NT			no consensus		

**Table 41. Summary of the 567<sup>th</sup> Serum Exchange (Serum #1261-1264) by Luminex - class II**

Method: Luminex											
*** Serum 1261 ***			*** Serum 1262 ***			*** Serum 1263 ***			*** Serum 1264 ***		
25 typing Labs			25 typing Labs			25 typing Labs			25 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ7	100%	100%	DR10	100%	100%	DR7	100%	100%	DQ2	100%	100%
DR11	100%	100%	DR4	100%	100%	DR9	100%	86%	DQ5	100%	100%
DR12	100%	100%	DR9	100%	100%	DR53	92%	50%	DQ6	100%	100%
DR13	100%	100%	DQ4	96%	100%	DQ2	56%	100%	DR1	100%	100%
DR14	100%	100%	DQ8	96%	100%	DQA1*05	24%	100%	DR10	100%	100%
DR17	100%	100%	DQ9	96%	100%				DR11	100%	100%
DR52	100%	100%	DR53	96%	100%				DR12	100%	100%
DR7	100%	100%	DR14	92%	71%				DR15	100%	100%
DR8	100%	100%	DR1	80%	50%				DR16	100%	100%
DR9	100%	100%	DR7	76%	100%				DR51	100%	100%
DR1	96%	100%	DQ2	76%	80%				DR7	100%	100%
DR18	96%	100%	DQA1*02	72%	100%				DR8	100%	100%
DR4	88%	40%	DQA1*03	72%	100%				DR9	100%	100%
DQA1*04	76%	100%	DQA1*06	64%	100%				DR103	92%	100%
DQA1*05	76%	100%	DQA1*04	48%	100%				DR13	88%	100%
DQA1*06	48%	100%	DQ7	44%	80%				DR52	84%	100%
DQ2	24%	40%	DQA1*05	40%	100%				DQA1*02	68%	100%
DR1403	20%	100%	DR1404	24%	100%				DR14	68%	100%
DR1404	20%	100%							DQ4	64%	100%
DQ4	20%	25%							DP17	56%	100%
									DQA1*04	48%	100%
									DQA1*01	40%	100%
									DQA1*06	40%	100%
									DQ9	36%	100%
									DQA1*03	36%	100%
									DQ7	28%	100%
									DQ8	28%	100%
									DR4	28%	100%
									DR1404	24%	100%
									DQA1*05	20%	100%
									DR1403	20%	100%

**Table 42. Individual laboratory results for Serum #1261 - 1264 by NIH-Standard and NIH-Extended - class I**

**** Serum 1261 ****						**** Serum 1262 ****				**** Serum 1263 ****				**** Serum 1264 ****					Method
Ctr	% POS	B14			Other	% POS	A2	A28	Other	% POS	A29		Other	% POS	B64	B65	B8	Other	
786	15	+				17	+	+		8	+			20	+	+	+		STD

STD = NIH-Standard

**** Serum 1261 ****						**** Serum 1262 ****				**** Serum 1263 ****				**** Serum 1264 ****					Method
Ctr	% POS	B14	B64	B65	Other	% POS	A28		Other	% POS	A29	A26	Other	% POS	B18			Other	
725	13	+				22	+			19	+	+		88					EXT
3753	13		+	+		2				23	+			67	+				EXT

EXT = NIH-Extended



**Table 43. Individual laboratory results for Serum #1261 - 1264 by Antiglobulin and Flow Cytometry - class I**

**** Serum 1261 ****							**** Serum 1262 ****							**** Serum 1263 ****					**** Serum 1264 ****									
Ctr	% POS	B64	B65	B14	B46	Other	% POS	A2	A26	A28	A33	A34	A68	Other	% POS	A29	A30	A31	Other	% POS	B64	B65	B8	B18	A3	B37	Other	Method
774	31	+	+		+	B18	81	+	+	+	+	+	+	B49,B50,B51,B75 >	54	+	+	+	A11,A26,A32,A33 >	80	+	+	+	+	+	+	B27,B7	Antiglobulin
786	16			+		B8	46	+					+	A10,A69	17	+			Cw7	25	+	+	+	+				Antiglobulin
910		+	+					+	+	+	+	+				+					+	+	+					Antiglobulin

**** Serum 1261 ****							**** Serum 1262 ****							**** Serum 1263 ****					**** Serum 1264 ****									
Ctr	% POS					Other	% POS						Other	% POS				Other	% POS							Other	Method	
3224	56						94								96					96								FC
5214	58						96								99					30								FC
8067	49						95								96					18								FC

FC = Flow cytometry

**Table 44. Individual laboratory results for Serum #1261 - 1264 by Other - class I**

**** Serum 1261 ****														**** Serum 1262 ****													
Ctr	% POS	B18	B51	B64	B65	B78	B8	A33	A34					Other	% POS	A2	A25	A26	A34	A66	A68	A69	A11			Other	Method
2400		+	+	+	+	+	+	+	+					B52,B67,A68,B39>		+	+	+	+	+	+	+			A24,B78,B51,B52>	Other	
3753	34	+	+	+	+	+	+								94	+	+	+	+	+	+	+	+		A33	Other	

Other = Luminex PRA

**** Serum 1261 ****														**** Serum 1264 ****													
Ctr	% POS	A1	A11	A25	A26	A29	A3	A30	A31	A33	A34	A66		Other	% POS	B18	B51	B57	B58	B64	B65	B7	B8	A32	A33	Other	Method
2400		+	+	+	+	+	+	+	+	+	+	+		A32,A68,A69,A36		+	+	+	+	+	+	+	+	+	+	A66,B52,B54,B55>	Other
3753	96	+	+	+	+	+	+	+	+	+	+	+			46	+	+	+	+	+	+	+	+			B78	Other

**Table 45. Individual laboratory results for Serum #1261 by Luminex - class I**

		**** Serum 1261 ****																																							
Ctr	% POS	A33	B18	B64	B65	B8	B51	B38	B46	B52	Cw16	B37	B78	Cw1	B39	B54	A34	Cw2	Cw12	Cw5	Cw6	Cw8	A69	B73	A68	Cw10	B67	B42	B59	B55	Cw9	A80	Cw7	B71	B3901	Other	Method				
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A26,A43,Cw14,Cw15 >	LMX			
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX		
774	47	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX		
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A26,A43,B41,Cw14 >	LMX		
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX		
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX		
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Cw18	LMX		
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B7801	LMX	
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Cw15,Cw18,A*30:01	LMX	
3632	93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX		
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
3766	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B61,A26,A43,Cw14 >	LMX	
3808	14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B7801	LMX	
3966	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B48,A26,A29,A43	LMX
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B27,Cw14,B2708	LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
5219	15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B5,B14,B16,B8C	LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B7801	LMX	
6649	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
8045	17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A2403	LMX	
8048	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A43,Cw18,B7801	LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A26,A43,B41,Cw14 >	LMX
8086	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A26,A43,Cw14	LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Bw4,Bw6	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B14	LMX



**Table 47. Individual laboratory results for Serum #1263 by Luminex - class I**

		**** Serum 1263 ****																											
Ctr	% POS	A26	A29	A33	A34	A36	A43	A3	A1	A30	A31	A74	A80	A68	A25	A32	A66	A11	A69	A23	B44	A6601	A6602	B45	A1101	A1102	Other	Method	
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+			A24,B82,B76	LMX	
725																													LMX
774	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B76,B8201	LMX	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+					LMX
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A2403,B8201	LMX	
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+			A24,B82,B76,Cw5	LMX	
3632	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
3766	86	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
3808	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+			LMX
3966	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+			B82	LMX	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+			B82	LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
5219	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						A10,A19,A28,A1C >	LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+	+		LMX
6649	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
8045	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
8048	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+	+		LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+			B82,B76	LMX	
8086	25	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+					LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						A1C	LMX	
8103		+	+	+	+	+	+						+				+						+	+					LMX

**Table 48. Individual laboratory results for Serum #1264 by Luminex - class I**

		**** Serum 1264 ****																																			
Ctr	% POS	B18	B57	B64	B65	B8	A3	B58	Cw7	B7	B73	B78	B51	B37	A33	Cw18	B55	B52	B54	B59	B42	Cw12	A32	B27	B67	B76	A74	B81	Cw6	B61	Cw1	A66	Cw8	B75	B7801	Other	Method
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A6601,A*33:01	LMX
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
774	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,A29,B8101,B2708 >	LMX
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B2708,A6601	LMX
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A69,A*33:01,B*51:01	LMX
3632	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A34,A69,B39,Cw9	LMX
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
3766	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A34,B8101,Cw9,Cw5 >	LMX
3808	14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
3966	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,A25,A26,A34 >	LMX
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,Cw5,Cw14 >	LMX
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
5219	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B5,B22,B14,B17 >	LMX
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
6649	22	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8045	15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8048	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B56,A25,A26 >	LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,A36,B39,Cw9 >	LMX
8086	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A43,Cw5,Cw14	LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B14	LMX

**Table 49. Individual laboratory results for Serum #1261 - 1264 by C1q - class I**

Ctr	**** Serum 1261 ****							**** Serum 1262 ****							**** Serum 1263 ****						**** Serum 1264 ****					Method			
	% POS	B64	B65	B8	Cw1	Cw12	Other	% POS	A2	A25	A33	A34	A68	A69	Other	% POS	A29	A43	Cw14	Cw16	Cw2	Other	% POS	B18	B64		B65	B8	Other
786		+	+	+	+	+	Cw6,Cw2,Cw7		+	+	+	+	+	+	A203,A26,B63,A6601 >		+	+	+	+	+	Cw4,Cw6,Cw7		+	+	+	+	Cw4,B73	C1q
2400		+	+	+	+	+	B46		+	+	+	+	+	+	A66		+	+						+	+	+	+		C1q

**Table 50. Individual laboratory results for Serum #1261 - 1264 by NIH-Extended and Flow Cytometry - class II**

		**** Serum 1261 ****				**** Serum 1262 ****				**** Serum 1263 ****				**** Serum 1264 ****				
Ctr	% POS			Other	% POS			Other	% POS			Other	% POS			Other	Method	
3753	76				8				45				93				EXT	

EXT = NIH-Extended

		**** Serum 1261 ****				**** Serum 1262 ****				**** Serum 1263 ****				**** Serum 1264 ****				
Ctr	% POS			Other	% POS			Other	% POS			Other	% POS			Other	Method	
3224	95				67				22				98				FC	
5214	96				74				26				95				FC	
8067	95				66				25				96				FC	

FC = Flow Cytometry



**Table 51. Individual laboratory results for Serum #1261 - 1264 by Other and C1q - class II**

Ctr	**** Serum 1261 ****											**** Serum 1262 ****						**** Serum 1263 ****				**** Serum 1264 ****										Method								
	% POS	DR1	DR11	DR12	DR13	DR14	DR17	DR18	DR52	DR7	DR9	Other	% POS	DQ9	DR10	DR4	DR9	DQ4	DQ7	Other	% POS	DR7	DR9	DQ2	Other	% POS	DQ2	DQ5	DQ6	DR1	DR10		DR103	DR12	DR15	DR16	DR8	DR9	Other	
2400		+	+	+	+	+	+	+	+	+	DR4		+	+	+	+			DR1,DR53		+	+					+	+	+	+	+	+	+	+	+	+	+	+	DR7,DR11>	Other
3753	77	+	+	+	+	+	+	+	+	+	DR8,DQ7	77	+	+	+	+	+	+	DR7,DR14>	33	+	+	+			93	+	+	+	+	+	+	+	+	+	+	+	+		Other

Other - Luminex PRA

Ctr	**** Serum 1261 ****											**** Serum 1262 ****					**** Serum 1263 ****				**** Serum 1264 ****										Method									
	% POS	DQ7	DQA1*05	DR11	DR12	DR13	DR8	DR14	DR17	DR18	DR52	Other	% POS	DQ8	DQ9	DQA1*02	DQA1*03	DR53	Other	% POS				Other	% POS	DQ2	DQ5	DQ6	DR1	DR10		DR15	DR103	DR51	DR9	DR16	DR8	Other		
2400		+	+	+	+	+	+	+	+	+				+	+	+	+						Other					+	+	+	+	+	+	+	+	+	+	+		C1q

**Table 52. Individual laboratory results for Serum #1261 by Luminex - class II**

**** Serum 1261 ****																	Method			
Ctrl	% POS	DQ7	DR11	DR12	DR13	DR14	DR17	DR52	DR7	DR8	DR9	DR1	DR18	DR4	DQA1*04	DQA1*05	DQA1*06	DQ2	Other	Method
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DRB1*14:01,DRB1*04:04,DRB1*04:05	LMX
774	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DQA1*04:01,DQA1*05:01,DQA1*05:03, DQA1*05:05,DQA1*06:01,DRB1*04:01, DRB1*04:03,DRB1*04:04,DRB1*04:05	LMX
3632	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DRB1*04:01,DRB1*04:04	LMX
3766	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DQA1*05:05,DQA1*04:01	LMX
3808	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DR3,DR1403,DR1404	LMX
3966	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ4	LMX
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
5219	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DR3,DR5,DR6,DR1403 >	LMX
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*05	LMX
6649	40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8045	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DR1403,DR1404,DQ4,DQ9	LMX
8048	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8086	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ4	LMX
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1403,DR1404,DQ4,DQ9	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ4	LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR3,DR1403,DR1404,DQ3	LMX

**Table 53. Individual laboratory results for Serum #1262 - 1263 by Luminex - class II**

Ctr	**** Serum 1262 ****														Other	**** Serum 1263 ****						Method							
	% POS	DR10	DR4	DR9	DQ4	DQ8	DQ9	DR53	DR14	DR1	DR7	DQ2	DQA1*02	DQA1*03		DQA1*06	DQA1*04	DQ7	DQA1*05	DR1404	% POS		DR7	DR9	DR53	DQ2	DQA1*05	Other	
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DRB1*14:54,DRB1*14:01								LMX	
774	63	+	+	+				+	+				+	+							28	+	+		+			LMX	
910		+	+	+	+	+	+	+	+	+	+	+	+	+									+	+				LMX	
1647		+	+	+	+	+	+	+	+	+	+	+	+	+									+	+				LMX	
2400		+	+	+	+	+	+	+	+	+	+							+					+	+	+			LMX	
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+	+	+	+		LMX	
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DQA1*03:02,DQA1*03:03,DQA1*02:01,DQA1*03:01,DQA1*06:01,DQA1*04:01,DRB1*14:01,DRB1*14:54>						+	DQA1*05:01		LMX
3632	88	+	+	+	+	+	+	+	+	+	+						+				64	+	+	+	+			LMX	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+				+		DRB1*14:01			+	+	+	+		LMX	
3766	89	+	+	+	+	+	+	+	+	+		+	+	+				+		DQA1*02:01,DQA1*03:01,DQA1*06:01,DQA1*05:05		49	+	+	+		+	DQA1*05:01	LMX
3808	33	+	+	+	+	+	+	+	+	+		+	+	+	+			+		DQ6		3	+	+	+			LMX	
3966	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				11	+	+	+	+	+	DQA1*02,DQA1*03,DQA1*04	LMX
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+	+	+	DQA1*04	LMX
5214		+	+	+	+	+	+	+	+	+		+	+	+				+					+	+	+	+		LMX	
5219	31	+	+	+	+	+	+	+	+		+	+	+	+	+	+			+	DQ3,DQA1*01		2	+	+	+			LMX	
5462		+	+	+	+	+	+	+	+	+	+							+		DRB1*14:01P			+	+	+	+		LMX	
6649	34	+	+	+	+	+	+	+	+	+	+		+	+	+	+				DQ6,DQA1*01		3	+	+	+			LMX	
8045	32	+	+	+	+	+	+	+	+	+	+							+	+	DQ6		3	+	+	+			LMX	
8048	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+			31	+	+	+		+	LMX	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+					+	+	+	+	+	LMX	
8086	33	+	+	+	+	+	+	+	+	+		+						+				4	+	+	+			LMX	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+				+					+	+	+	+		LMX	
8098		+	+	+	+	+	+	+	+		+	+						+	+	DQ6			+	+	+			LMX	
8100		+	+	+	+	+	+	+	+	+	+							+					+	+	+	+		LMX	
8103		+	+	+	+	+	+		+		+	+	+	+				+	+	DR51,DQ3			+	+	+	+		LMX	

**Table 54. Individual laboratory results for Serum #1264 by Luminex - class II**

		**** Serum 1264 ****																																			
Ctr	% POS	DQ2	DQ5	DQ6	DR1	DR10	DR11	DR12	DR15	DR16	DR51	DR7	DR8	DR9	DR103	DR13	DR52	DQA1*02	DR14	DQ4	DP17	DQA1*04	DQA1*01	DQA1*06	DQ9	DQA1*03	DQ7	DQ8	DR4	DR1404	Other	Method					
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												DRB1*13:01,DRB3*02:02,DRB1*14:02	LMX				
774	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+															LMX		
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+				+								LMX		
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+		+			+	DR1403,DP9			LMX			
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+										LMX	
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR17,DPw6,DP19,DQA1*01:02, DQA1*01:01,DQA1*05:01,DQA1*01:03, DQA1*04:01,DQA1*03:01,DQA1*02:01, DRB3*02:02,DRB1*14:02,DRB1*13:01>		LMX	
3632	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DRB1*14:02		LMX
3766	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR17,DPw3,DPw5,DPw6 >		LMX	
3808	53	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1403		LMX	
3966	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPw6,DP19,DQA1*05		LMX	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ3,DQA1*05		LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
5219	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR2,DR5,DR18,DR53 >		LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*01,DRB1*13:01,DRB1*14:02, DRB3*02:02		LMX	
6649	59	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP9		LMX	
8045	56	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1403,DR18,DP9		LMX	
8048	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*05		LMX	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*05		LMX
8086	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1403,DR18		LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR3,DR1403,DR17,DR18 >		LMX