

REPORT OF THE 407th CELL EXCHANGE

NOVEMBER 26, 2018

B-cell Lines	555-556
Cells	1625-1628
Sera	1253-1256

B-cell Line Exchange #278

The results for B-cell Line Exchange #278 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We are most grateful to the generosity of **Welsh Blood Service, Pontyclun Wales** for sharing their valuable reference cells with us.

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-555. The consensus type for this sample from a Caucasian donor is DRB1*08:16-DRB1*13:01-DRB3*01:01-DQA1*01:03-DQA1*04:01-DQB1*04:02-DQB1*06:03-DPA1*01:03-DPB1*02:01-DPB1*04:01/A*02:01-B*40:02-B*44:02-C*02:02-C*05:01. One likely association present in this cell is DRB1*13:01-DQB1*06:03-B*44:02-C*05:01, observed in Caucasians, with HF=0.00896. The other likely association present may then be DRB1*08:16-DQB1*04:02-B*40:02-C*02:02. The association of DRB1*08:16-DQB1*04:02 was observed in cell ML0273, a reference cell for DRB1*08:16.

Ter-553 is listed in the IMGT database as cell 24131. As with ML0273, it is a reference cell for DRB1*08:16. It was previously examined in the Exchange as Ter-474 (2012), Ter-443 (2010), Ter-369 (2005), and extract 561 (2013). We congratulate Rao for correctly identifying this cell as being previously examined. In this present retyping, the rare DRB1*08:16 allele was assigned by 97% of labs reporting at high resolution. DRB1*13:01 (100%) was reported as the second DRB1 type, with 10 labs assigning DRB1*13:01:01. DQA1*01:03, DQA1*04:01, DQB1*04:02, and DQB1*06:03 were all assigned in complete consensus, with 6 labs assigning DQA1*01:03:01, DQA1*04:01:01, DQB1*04:02:01, and 9 labs assigning DQB1*06:03:01. DPA1*01:03 (100%), DPB1*02:01 (100%), and DPB1*04:01 (100%) were the assigned DP types. The class I types for this sample were each reported in complete consensus as A*02:01, B*40:02, B*44:02, C*02:02, and C*05:01. A*02:01:01, B*44:02:01, C*02:02:02, and C*05:01:01 were each assigned by 8 labs, and B*40:02:01 was assigned by 7 labs.

Ter-556. The consensus type for this sample from a Caucasian donor is DRB1*08:10-DRB1*15:01-DRB5*01:01-DQA1*01:02-DQA1*06:01-DQB1*03:01-DQB1*06:02-DPA1*01:03-DPB1*04:01/A*11:01-A*32:01-B*07:02-B*35:01-C*04:01-C*07:02. One likely association present in this cell is DRB1*15:01-DQB1*06:02-B*07:02-C*07:02, commonly observed across all populations, with HF=0.08091, in Caucasians. The other likely association present is DRB1*08:10-DQB1*03:01-B*35:01-C*04:01. Interestingly, this rare association is observed exclusively in Hispanics, with HF=0.00047.

This cell is listed in the IMGT database as cell 38658. It is a reference cell for DRB1*08:10, and was previously examined in the Exchange as Ter-468 (2012), Ter-398 (2007), and Ter-362 (2005), as astutely noted by Rao. In this present study, DRB1*08:10 was assigned by 100% of labs reporting at high resolution. DRB1*15:01 (100%) was assigned as the second DRB1 type, with 10 labs assigning DRB1*15:01:01. DQA1*01:02 (100%), DQA1*06:01 (100%), DQB1*03:01 (100%), and DQB1*06:02 (97%) were the assigned DQ types. DQA1*01:02:01 and DQA1*06:01:01 were each assigned by 6 labs. DQB1*03:01:01 was assigned by 8 labs, and DQB1*06:02:02 was assigned by 11 labs. DPA1*01:03 and DPB1*04:01 were reported in complete consensus as the assigned DP types, with 5 labs reporting DPA1*01:03:01 and 8 labs assigning DPB1*04:01:01. A*11:01, A*32:01, B*07:02, B*35:01, C*04:01, and C*07:02 were reported by 100% as the class I types, with A*11:01:01 and A*32:01:01 assigned by 8 labs, B*07:02:01 and B*35:01:01 assigned by 7 labs, and C*04:01:01 and C*07:02:01 assigned by 9 labs.

Table 3a: Individual laboratory results for B-cell #555-Class II

Center	Low resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
87	*08	*13	3*01		*01	*04	*04	*06	*01	*01	*02(DP201)	*04(DP401)	RT-PCR	
206	*08	*13	3*01		*01	*06	*04	*06	*01	*01	*02	*04	SSO	
278	*08	*13	3*01	NT	*01	*04	*04	*06	*01	*01	*02	*04		
725	*08	*13	3*PRESENT		*01	*04	*04	*06					SSP SSO	
731	*08	*13			*01	*04	*04	*06					SSP SSO SBT	
735	*08	*13	3*01		*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	SSP SSO SBT	
747	*08	*13	3*01		*01	*04	*04	*06	*01	*01	*02	*04	SSP SSO NGS	
771	*08	*13			*01	*04	*04	*06					SSP SSO	
774	*08	*13	3*01		*01	*04	*04	*06			*02(DP201)	*04(DP401)	SSP SSO	
779	*08	*13	3*01		*01	*04	*04	*06	*01		*02	*04	SSP SSO	
792	*08	*13	3*01		*01	*04	*04	*06	*01	*01	*02	*04	SSO SBT	
793	*08	*13	3*01		*01	*04	*04	*06			*02(DP201)	*04(DP401)	SSP	
794	*08	*13	3*01	NP	*01	*04	*04	*06	*01		*02	*04	SSP SSO NGS	
2400	*08	*13	3*01		*01	*04	*04	*06			*02	*04	RT-PCR	
2847	*08	*13											SSP SSO SBT	
3224	*08	*13	3*01		*01	*04	*04	*06	*01	*01	*02(DP201)	*04(DP401)	SSO	
3519	*08	*13			*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	RT-PCR	
3632	*08	*13	3*01		*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	SSP NGS	
3966													SSP SSO	
4079	*08	*13	NT	NT	*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	SSP	
4251	*08	*13	3*01		*01	*04	*04	*06	*01	*01	*02(DP201)	*04(DP401)	SSP SSO NGS	
4492	*08	*13	3*PRESENT		*01	*04	*04	*06	*01		*02	*04(DP401)	SSO NGS	
5130	*08	*13	3*01		*01	*04	*04	*06			*02	*04	SSP SSO NGS	
5214	*08	*13	3*01		*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	SSO NGS	
5219	*08	*13			*01	*04	*04	*06					SSO	
5451	*08	*13	3*01		*01	*04	*04	*06					SSO	
5462	*08	*13	3*01	NP	*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	SSP SSO SBT	
5642	*08	*13	3*PRESENT				*04	*06					SSP SSO	
6649	*08	*13											SSP	
8001	*08	*13	3*01		*01	*04	*04	*06					SSO	
8029	*08	*13			*01	*04	*04	*06					SSP SSO	
8042	*08	*13					*04	*06					SSO NGS	
8043	*08	*13			*01	*04	*04	*06						
8068	*08	*13			*01	*04	*04	*06					SSP SSO	
													SSO	

Table 3b: Individual laboratory results for B-cell #555-Class II

Center	High resolution											METHOD	Other Alleles	
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*08:16	*13:01					*04:02	*06:03			*02:01	*04:01	SSO SBT	
278	*08:16	*13:01	3*01:01	NT	*01:03	*04:01	*04:02	*06:03	*01:03	*01:03	*02:01	*04:01		
731	*08:16	*13:01					*04:02	*06:03					SSP SSO SBT	
735	*08:16	*13:01	3*01:01P		*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSP SSO SBT	DQA1*01:10 DPA1*01:13
747	*08:16	*13:01:01	3*01:01:02		*01:03:01	*04:01:01	*04:02:01	*06:03:01	*01:03:01:01	*01:03:01:02	*02:01:02	*04:01:01:02	SSP SSO NGS	
762	*08:16	*13:01:01	3*01:01:02		*01:03:01:02	*04:01:01	*04:02:01	*06:03:01:01	*01:03:01:01	*01:03:01:02	*02:01:02	*04:01:01:01	NGS	
771	*08:16	*13:01					*04:02	*06:03					SSP SSO	
														DRB1*13:141 DRB1*13:138 DRB1*13:148 DRB1*13:153 DRB1*13:166 DRB1*13:173 DRB1*13:186 DRB1*13:187 DQB1*04:11 DQB1*04:13 DQB1*04:23
774	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03			*02:01	*04:01	SSP SSO	
779					*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSP SSO	
792	*08:16	*13:01					*04:02	*06:03			*02:01	*04:01	SSO SBT	
793					*01:03	*04:01					*02:01	*04:01	SSP	
794	*08:16	*13:01:01	3*01:01:02	NP	*01:03	*04:01	*04:02	*06:03:01	*01:03		*02:01:02	*04:01:01	SSP SSO NGS RT-PCR	
2344	*08:16	*13:01:01G					*04:02:01G	*06:03:01			*02:01:02G	*04:01:01G	NGS	
2400	*08:16	*13:01			*01:03	*04:01	*04:02	*06:03			*02:01:02G	*04:01:01G	SSP SSO SBT	
3135	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03	*01:03	*02:01	*04:01		
3511	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03	*01:03	*02:01	*04:01	SSP SSO	
3519	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSP NGS	
3632	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSP SSO	
3753	*08:16	*13:01:01	3*01:01:02	NP	*01:03:01	*04:01:01	*04:02:01	*06:03:01	*01:03:01	*01:03:01	*02:01:02	*04:01:01	NGS	
3966	*08:16	*13:01	3*01:01				*04:02	*06:03					SSP	
4079	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSP SSO NGS	
4251	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03	*01:03	*02:01	*04:01	SSO NGS	
4337	*08:16	*13:01					*04:02	*06:03			*02:01	*04:01	SBT NGS	
4492	*08:16	*13:01:01	3*01:01		*01:03:01	*04:01:01	*04:02:01	*06:03:01	*01:03	*01:03	*02:01:02	*04:01:01	SSP SSO NGS	DPA1*01:13
														DRB3*01:11 DRB3*01:13 DRB1*08:01
5130	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03			*02:01	*04:01	SSO NGS	
5133	*08:16	*13:01:01	3*01:01:02	NP	*01:03:01:02	*04:01:01	*04:02:01	*06:03:01	*01:03:01		*02:01:02	*04:01:01	NGS	
5214						*04:01						*04:01:01G	SSO	
5451	*08:16	*13:01:01											SSP SSO SBT	

Table 3b: Individual laboratory results for B-cell #555-Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5462	NT	NT	NP	NT	NT	NT	NT	NT	NT	NT	*02:01	*04:01	SSP SSO	DPB1*640:01 DPB1*678:01 DPB1*681:01 DPB1*685:01 DPB1*692:01 DPB1*700:01N DPB1*643:01 DPB1*658:01 DPB1*670:01 DPB1*677:01 DPB1*682:01 DPB1*683:01 DPB1*696:01N
5488	*08:16	*13:01:01	3*01:01:02		*01:03:01	*04:01:01	*04:02:01	*06:03:01	*01:03:01		*02:01:02	*04:01:01	SSO NGS	
5642	*08:16	*13:01					*04:02	*06:03					SSP	
8001	*08:16	*13:01	3*01:01:01G				*04:02	*06:03			*02:01	*04:01	SSP SSO	
8021	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSO NGS	
8029	*08:16	*13:01:01					*04:02:01G	*06:03:01					SSO NGS	
8043	*08:16	*13:01			*01:03	*04:01	*04:02	*06:03					SSP SSO	
8070	*15:13	*13:01					*04:02	*06:03					SBT	
8086	*08:16	*13:01			*01:03	*04:01	*04:02	*06:03	*01:03	*01:03	*02:01	*04:01	SSO SBT	
9916	*08:16	*13:01:01	3*01:01				*04:02	*06:03			*02:01	*04:01	SBT	

Table 4: Individual laboratory results for B-cell #555-Class II

Serology										
CTR	DRB1		DRB3/4/5		DQB1			Others		
910	DR8	DR18	DR52			DQ4	DQ1	DR13		

Table 5: Individual laboratory results for B-cell #555-Class I

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
87	*02	*02	*40	*44	*02	*05							RT-PCR	
206	*02	*02	*40	*44	*02	*05							SSO	
230							*02:01		*40:02	*44:02	*02:02	*05:01	SSO SBT	
278	*02	*02	*40	*44	*02	*05	*02:01	*02:01	*40:02	*44:02	*02:02	*05:01		
725	*02		*40	*44	*02	*05							SSP SSO	
735	*02		*40	*44	*02	*05	*02:01P		*40:02P	*44:02P	*02:02	*05:01P	SSP SSO SBT	
747	*02	*02	*40	*44	*02	*05	*02:01:01:01	*02:01:01:01	*40:02:01	*44:02:01:01	*02:02:02	*05:01:01:02	SSP SSO NGS	
774	*02		*40	*44	*02	*05							SSP SSO	
779	*02		*40	*44	*02	*05							SSP SSO	
792	*02	*02	*40	*44	*02	*05	*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SSO SBT	A*02:01:01:02L B*44:02:01:02S
793	*02		*40	*44	*02	*05							SSP	
794	*02		*40	*44	*02	*05	*02:01:01		*40:02:01	*44:02:01	*02:02:02	*05:01:01	SSP SSO NGS RT-PCR	
2344							*02:01:01:01	*02:01:01:01	*40:02:01G	*44:02:01:01	*02:02:02:01	*05:01:01:02	NGS	
2400	*02		*40	*44	*02	*05	*02:01		*40:02	*44:02	*02:02	*05:01	SSP SSO SBT	B*40:356
2847	*02		*40	*44	*02	*05							SSO	
3135							*02:01	*02:01	*40:02	*44:02	*02:02	*05:01		A*02:01L
3224	*02	*02	*40	*44	*02	*05							RT-PCR	
3511							*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SSP SSO	
3519	*02		*40	*44	*02	*05	*02:01		*40:02	*44:02	*02:02	*05:01	SSP NGS	
3753							*02:01:01	*02:01:01	*40:02:01	*44:02:01	*02:02:02	*05:01:01	NGS	
3966	*02	*02	*40	*44	*02	*05							SSP	
4079	NT	NT	NT	NT	NT	NT	*02:01		*40:02	*44:02	*02:02	*05:01	SSP SSO NGS	
4251	*02	*02	*40	*44	*02	*05	*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SSO NGS	
4337							*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SBT NGS	
4492	*02		*40	*44	*02	*05	*02:01:01	*02:01:01	*40:02:01	*44:02:01:01	*02:02:02:01	*05:01:01:02	SSP SSO NGS	
5130	*02	*02	*40	*44	*02	*05	*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SSO NGS	B*40:219
5133							*02:01:01		*40:02:01	*44:02:01:01	*02:02:02:01	*05:01:01	NGS	
5214	*02		*40 (B61)	*44	*02	*05							SSO	
5219	*02	*02	*40	*44	*02	*05							SSP SSO	
5462	*02		*40	*44	*02	*05	NT	NT	NT	NT	NT	NT	SSP SSO	
5488							*02:01:01		*40:02:01	*44:02:01	*02:02:02	*05:01:01	SSO NGS	
8021							*02:01		*40:02	*44:02	*02:02	*05:01	SSO NGS	
8029	*02	*02	*40	*44	*02	*05	*02:01:01	*02:01:01	*40:02:01	*44:02:01	*02:02:02	*05:01:01	SSO NGS	
8042	*02		*40	*44	*02	*05								
8068	*02	*02	*40	*44	*02	*05							SSO	
8086							*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SSO SBT	
9916							*02:01		*40:02	*44:02	*02:02	*05:01	SBT	A*02:665 A*02:686 A*02:689 B*40:303 B*40:356 C*02:26 C*02:08 C*05:26 C*05:58

Table 6a: Individual laboratory results for B-cell #556-Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
87	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04(DP401)	*04(DP401)	RT-PCR	
206	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04		SSO	
278	*08	*15	5*01	NT	*01	*06	*03	*06	*01	*01	*04	*04		
725	*08	*15	5*PRESENT		*01	*06	*03	*06					SSP SSO	
731	*08	*15			*01	*06	*03	*06					SSP SSO SBT	
735	*08	*15	5*01		*01	*06	*03	*06	*01		*04(DP401)		SSP SSO SBT	
747	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04	*04	SSP SSO NGS	
771	*08	*15			*01	*06	*03	*06					SSP SSO	
774	*08	*15	5*01		*01	*06	*03	*06			*04(DP401)		SSP SSO	
779	*08	*15	5*01		*01	*06	*03	*06	*01		*04		SSP SSO	
792	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04	*04	SSO SBT	
793	*08	*15	5*01		*01	*06	*03	*06			*04(DP401)		SSP	
794	*08	*15	5*01	NP	*01	*06	*03	*06	*01		*04		SSP SSO NGS	
2400	*08	*15	5*01		*01	*06	*03	*06			*04		RT-PCR	
2847	*08	*15											SSP SSO SBT	
3224	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04(DP401)	*04(DP401)	SSO	
3519	*08	*15			*01	*06	*03	*06	*01		*04(DP401)		RT-PCR	
3632	*08	*15	5*01		*01	*06	*03	*06	*01		*04(DP401)		SSP NGS	
3966													SSP SSO	
4079	*08	*15	NT	NT	*01	*06	*03	*06	*01		*04(DP401)		SSP	
4251	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04(DP401)	*04(DP401)	SSP SSO NGS	
4492	*08	*15	5*PRESENT		*01	*06	*03	*06	*01		*04(DP401)		SSO NGS	
5130	*08	*15	5*01		*01	*06	*03	*06			*04	*04	SSP SSO NGS	
5214	*08	*15	5*01		*01	*06	*03	*06	*01		*04(DP401)		SSO NGS	
5219	*08	*15			*01	*06	*03	*06					SSO	
5451	*08	*15	5*01		*01	*06	*03	*06					SSP SSO SBT	
5462	*08	*15	NP	5*01	*01	*06	*03	*06	*01		*04(DP401)		SSO	
5642	*08	*15	5*PRESENT				*03	*06					SSP	
6649	*08	*15											SSO	
8001	*08	*15	5*01		*01	*06	*03	*06					SSP SSO	
8029	*08	*15			*01	*06	*03	*06					SSO NGS	
8042	*08	*15					*03	*06						
8043	*08	*15			*01	*06	*03	*06	*01		*04		SSP SSO	
8068	*08	*15			*01	*06	*03	*06					SSO	

Table 6b: Individual laboratory results for B-cell #556-Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*08:10	*15:01					*03:01	*06:02			*04:01	*04:01	SSO SBT	
278	*08:10	*15:01	5*01:01	NT	*01:02	*06:01	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01		
731	*08:10	*15:01					*03:01	*06:02:02					SSP SSO SBT	
735	*08:10	*15:01	5*01:01P		*01:02	*06:01	*03:01	*06:02	*01:03		*04:01		SSP SSO SBT	DPA1*01:13
747	*08:10	*15:01:01:01	5*01:01:01		*01:02:01:01	*06:01:01	*03:01:01:03	*06:02:02	*01:03:01:04	*01:03:01:04	*04:01:01:01	*04:01:01:01	SSP SSO NGS	
762	*08:10	*15:01:01:01	5*01:01:01		*01:02:01	*06:01:01	*03:01:01	*06:02:02	*01:03:01:04		*04:01:01		NGS	
771	*08:10	*15:01					*03:01	*06:02					SSP SSO	
														DRB1*15:85 DRB1*15:86 DRB1*15:106 DRB1*15:107 DRB1*15:108 DRB1*15:111 DRB1*15:112 DRB1*15:114 DRB5*01:16 DRB5*01:17 DQB1*03:92 DQB1*03:93
774	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02			*04:01		SSP SSO	
779	*08:10				*01:02	*06:01	*03:01	*06:02	*01:03		*04:01		SSP SSO	
792	*08:10	*15:01					*03:01	*06:02			*04:01	*04:01	SSO SBT	
793					*01:02	*06:01					*04:01		SSP	
794	*08:10	*15:01:01	5*01:01:01	NP	*01:02	*06:01	*03:01:01	*06:02:02	*01:03		*04:01:01		SSP SSO NGS RT-PCR	
2344	*08:10	*15:01:01G					*03:01:01G	*06:02:02			*04:01:01G	*04:01:01G	NGS	
2400	*08:10	*15:01			*01:02	*06:01	*03:01	*06:02			*04:01P		SSP SSO SBT	
3135	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01		
3511	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01	SSP SSO	
3519	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03		*04:01	*04:01	SSP NGS	
3632	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03		*04:01		SSP SSO	
3753	*08:10	*15:01:01	5*01:01:01	NP	*01:02:01	*06:01:01	*03:01:01	*06:02:02	*01:03:01	*01:03:01	*04:01:01	*04:01:01	NGS	
3966	*08:10	*15:01	5*01:01				*03:01	*06:02					SSP	
4079	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03		*04:01		SSP SSO NGS	
4251	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01	SSO NGS	
4337	*08:10	*15:01					*03:01	*06:02:02			*04:01	*04:01	SBT NGS	
4492	*08:10	*15:01:01	5*01:01		*01:02:01	*06:01:01	*03:01:01	*06:02:02	*01:03	*01:03	*04:01:01	*04:01:01	SSP SSO NGS	DPA1*01:13
5214						*06:01					*04:01:01G		SSO	
5130	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02			*04:01	*04:01	SSO NGS	
5133	*08:10	*15:01:01	5*01:01:01	NP	*01:02:01	*06:01:01	*03:01:01	*06:02:02	*01:03:01		*04:01:01		NGS	
5451	*08:10	*15:01:01											SSP SSO SBT	

Table 6b: Individual laboratory results for B-cell #556-Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5462	NT	NT	NP	NT	NT	NT	NT	NT	NT	NT	NT	*04:01	SSP SSO	DPB1*642:01 DPB1*643:01 DPB1*670:01 DPB1*677:01 DPB1*679:01 DPB1*682:01 DPB1*683:01 DPB1*686:01 DPB1*696:01N DPB1*658:01
5488	*08:10	*15:01:01	5*01:01:01		*01:02:01	*06:01:01	*03:01:01	*06:02:02	*01:03:01			*04:01:01	SSO NGS	
5642	*08:10	*15:01					*03:01	*06:02					SSP	
8001	*08:10	*15:01	5*01:01:01G				*03:01	*06:02				*04:01	SSP SSO	
8021	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03			*04:01	SSO NGS	
8029	*08:10	*15:01:01					*03:01:01	*06:02:02					SSO NGS	
8043	*08:10	*15:01			*01:02	*06:01	*03:01	*06:02	*01:03			*04:01	SSP SSO	
8070	*08:10	*15:01					*03:01	*06:02					SBT	
8086	*08:10	*15:01			*01:02	*06:01	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01	SSO SBT	
9916	*08:10	*15:01:01	5*01:01				*03:01	NEW				*04:01:01	SBT	DQB1*03:29

Table 7: Individual laboratory results for B-cell #556-Class II

Serology									
CTR	DRB1		DRB3/4/5		DQB1		Others		
910	DR8	DR15	DR51			DQ7	DQ1		

Table 8: Individual laboratory results for B-cell #556-Class I

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
87	*11	*32	*07	*35	*04	*07							RT-PCR	
206	*11	*32	*07	*35	*04	*07							SSO	
230							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO SBT	
278	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02		
725	*11	*32	*07	*35	*04	*07							SSP SSO	
735	*11	*32	*07	*35	*04	*07	*11:01P	*32:01P	*07:02P	*35:01P	*04:01P	*07:02P	SSP SSO SBT	
747	*11	*32	*07	*35	*04	*07	*11:01:01:01	*32:01:01:01	*07:02:01:01	*35:01:01:05	*04:01:01:05	*07:02:01:03	SSP SSO NGS	
774	*11	*32	*07	*35	*04	*07							SSP SSO	
779	*11	*32	*07	*35	*04	*07							SSP SSO	
792	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO SBT	
793	*11	*32	*07	*35	*04	*07							SSP	
794	*11	*32	*07	*35	*04	*07	*11:01:01	*32:01:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSP SSO NGS	
2344							*11:01:01:01	*32:01:01:01	*07:02:01G	*35:01:01G	*04:01:01:05	*07:02:01:03	RT-PCR	
2400	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	NGS	
2847	*11	*32	*07	*35	*04	*07							SSP SSO SBT	
3135							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO	C*04:09N
3224	*11	*32	*07	*35	*04	*07							RT-PCR	
3511							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSP SSO	
3519	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSP NGS	
3753							*11:01:01	*32:01:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	NGS	
3966	*11	*32	*07	*35	*04	*07							SSP	
4079	NT	NT	NT	NT	NT	NT	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSP SSO NGS	
4251	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO NGS	
4337							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SBT NGS	
4492	*11	*32	*07	*35	*04	*07	*11:01:01:01	*32:01:01:01	*07:02:01:01	*35:01:01	*04:01:01	*07:02:01	SSP SSO NGS	
5130	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO NGS	
5133							*11:01:01:01	*32:01:01:01	*07:02:01:01	*35:01:01:05	*04:01:01:05	*07:02:01:03	NGS	
5214	*11	*32	*07	*35	*04	*07							SSO	
5219	*11	*32	*07	*35	*04	*07							SSO	
5462	*11	*32	*07	*35	*04	*07	NT	NT	NT	NT	NT	NT	SSP SSO	
5488							*11:01:01	*32:01:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSO NGS	
8021							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO NGS	
8029	*11	*32	*07	*35	*04	*07	*11:01:01	*32:01:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSO NGS	
8042	*11	*32	*07	*35	*04	*07								
8068	*11	*32	*07	*35	*04	*07							SSO	
8086							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO SBT	
9916							*11:01	*32:01	*07:02	*35:01	*04:01:01	*07:02:01	SBT	A*11:263 B*35:332

CELL EXCHANGE #407

The results for Cell Exchange #407 are summarized in Table 9 and Table 10. Molecular typing results for individual laboratories are listed in Tables 11 - 14 for each sample and individual serological results for each sample are

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

Cell 1625. The reported consensus type for this sample from a donor of mixed race (African American and Caucasian) is A*01:01(A1)-A*34:02(A34)-B*14:02(B65)-B*57:01(B57)-C*06:02-C*08:02. One likely class I association present in this cell is A*01:01-B*57:01-C*06:02, with HF=0.00261, in African Americans. The other likely association present is A*34:02-B*14:02-C*08:02, observed exclusively in Caucasians, with HF=0.00006. A*01:01, A*34:02, B*14:02, B*57:01, C*06:02, and C*08:02 were each reported in complete consensus, with 4 labs reporting A*01:01:01:01, A*34:02:01, B*14:02:01:01, B*57:01:01, C*06:02:01:01, and C*08:02:01:01. A1 (100%), A34 (91%), B65 (64%), and B57 (100%) were assigned by serology.

Cell 1626. The reported consensus type for this sample from an Hispanic donor is A*11:01(A11)-A*29:02(A29)-B*35:01(B35)-B*44:03(B44)-C*04:01-C*16:01. The likely haplotypes present in this cell are A*11:01-B*35:01-C*04:01 and A*29:02-B*44:03-C*16:01, with respective HF=0.00687 and 0.02457, in Hispanics. A*11:01, A*29:02, B*35:01, B*44:03, C*04:01, and C*16:01 were each assigned in complete consensus, with 4 labs reporting A*11:01:01:01, A*29:02:01:01, B*35:01:01, B*44:03:01, C*04:01:01:05, and C*16:01:01:01. A11 (100%), A29 (100%), B35 (91%), and B44 (100%) were well assigned by labs reporting serological results.

Cell 1627. The reported consensus type for this sample from an African American donor is A*23:01(A23)-A*30:02(A30)-B*53:01(B53)-C*04:01-C*08:02. The likely associations present in this cell are A*30:02-B*53:01-C*04:01 and A*23:01-B*53:01-C*08:02, with respective HF=0.00297 and 0.00131, in African Americans. The association of A*23:01-B*53:01-C*08:02 in this cell was also observed in cell 927, also from an African American donor. A*23:01, A*30:02, B*53:01, C*04:01, and C*08:02 were each assigned in complete consensus, with 3 labs reporting A*23:01:01, A*30:02:01:02, B*53:01:01, C*04:01:01, and C*08:02:01:01. A23 (100%), A30 (100%), and B53 (100%) were well assigned by serology.

Cell 1628. The reported consensus type for this sample from a Hispanic donor is A*01:01(A1)-A*02:06(A2)-B*51:01(B51)-B*57:01(B57)-C*07:01-C*15:02. The likely associations present in this cell are A*01:01-B*57:01-C*07:01 and A*02:06-B*51:01-C*15:02, with respective HF=0.00227 and 0.00027, in Hispanics. A*01:01, A*02:06, B*51:01, B*57:01, C*07:01, and C*15:02 were each assigned in complete consensus, with 3 labs assigning A*01:01:01:01, A*02:06:01:01, B*51:01:01, B*57:01:01:01, C*07:01:01, and C*15:02:01:01.

Table 9. Summary of the 407th Cell Exchange (Cell #1625-1628)

DNA typing

Cell 1625	
17 low/11 high labs - A	%(n)
A*01:01:01:01	36(4)
A*01:01:01G	9 (1)
A*01:01	55(6)
A*01	100(17)
17 low/11 high labs - A	%(n)
A*34:02:01	36(4)
A*34:02	64(7)
A*34	100(17)
17 low/13 high labs - B	%(n)
B*14:02:01:01	31(4)
B*14:02	69(9)
B*14	100(17)
17 low/12 high labs - B	%(n)
B*57:01:01:01	25(3)
B*57:01:01	8 (1)
B*57:01	67(8)
B*57	100(17)
15 low/11 high Labs - C	%(n)
C*06:02:01:01	36(4)
C*06:02:01G	9 (1)
C*06:02	55(6)
C*06	100(15)
15 low/11 high Labs - C	%(n)
C*08:02:01:01	36(4)
C*08:02	64(7)
C*08	100(15)

Cell 1626	
17 low/11 high labs - A	%(n)
A*11:01:01:01	36(4)
A*11:01:01G	9 (1)
A*11:01	55(6)
A*11	100(17)
17 low/11 high labs - A	%(n)
A*29:02:01:01	36(4)
A*29:02:01G	9 (1)
A*29:02	55(6)
A*29	100(17)
17 low/11 high labs - B	%(n)
B*35:01:01:05	27(3)
B*35:01:01	9 (1)
B*35:01:01G	9 (1)
B*35:01	55(6)
B*35	100(17)
17 low/11 high labs - B	%(n)
B*44:03:01	36(4)
B*44:03	64(7)
B*44	100(17)
15 low/11 high Labs - C	%(n)
C*04:01:01:05	36(4)
C*04:01P	9 (1)
C*04:01	55(6)
C*04	100(15)
15 low/11 high Labs - C	%(n)
C*16:01:01:01	36(4)
C*16:01:01G	9 (1)
C*16:01	55(6)
C*16	100(15)

Cell 1627	
15 low/11 high labs - A	%(n)
A*23:01:01	27(3)
A*23:01:01G	18(2)
A*23:01	55(6)
A*23	100(15)
15 low/11 high labs - A	%(n)
A*30:02:01:02	27(3)
A*30:02	73(8)
A*30	100(15)
15 low/11 high labs - B	%(n)
B*53:01:01	27(3)
B*53:01	73(8)
B*53	100(15)
13 low/11 high Labs - C	%(n)
C*04:01:01	27(3)
C*04:01:01G	9 (1)
C*04:01P	9 (1)
C*04:01	55(6)
C*04	100(13)
13 low/11 high Labs - C	%(n)
C*08:02:01:01	27(3)
C*08:02	73(8)
C*08	100(13)

Cell 1628	
15 low/10 high labs - A	%(n)
A*01:01:01:01	30(3)
A*01:01:01G	10(1)
A*01:01	60(6)
A*01	100(15)
15 low/10 high labs - A	%(n)
A*02:06:01:01	30(3)
A*02:06	70(7)
A*02	100(15)
15 low/10 high labs - B	%(n)
B*51:01:01:05	20(2)
B*51:01:01	10(1)
B*51:01P	10(1)
B*51:01	60(6)
B*51	100(15)
15 low/11 high labs - B	%(n)
B*57:01:01:01	27(3)
B*57:01	73(8)
B*57	100(15)
13 low/11 high labs - C	%(n)
C*07:01:01:01	18(2)
C*07:01:01	9 (1)
C*07:01:01G	18(2)
C*07:01	55(6)
C*07	100(13)
13 low/10 high labs - C	%(n)
C*15:02:01:01	30(3)
C*15:02:01G	10(1)
C*15:02	60(6)
C*15	100(13)

Table 10. Summary of the 407th Cell Exchange (Cell #1625 - 1628)

Serological typing							
(Mixed)		(Hispanic)		(Black)		(Hispanic)	
Cell 1625		Cell 1626		Cell 1627		Cell 1628	
(11 Samples Typed)		(11 Samples Typed)		(9 Samples Typed)		(9 Samples Typed)	
A1	100.0%	A11	90.9%	A23	100.0%	A1	100.0%
		A11.1	9.1%		[100.0%]		
A34	90.9%		[100.0%]			A2	100.0%
A10	9.1%			A30	100.0%		[100.0%]
	[100.0%]	A29	100.0%		[100.0%]		
			[100.0%]			B51	100.0%
B14	36.4%			B53	100.0%		[100.0%]
B65	63.6%	B35	90.9%				
	[100.0%]			CW4	22.2%	B57	100.0%
		B44	100.0%		[22.2%]		[100.0%]
B57	100.0%		[100.0%]				
	[100.0%]	CW4	27.3%	CW8	22.2%	CW7	22.2%
CW6	18.2%	CW16	9.1%	BW4	88.9%		
	[18.2%]					BW4	88.9%
		BW4	90.9%				
CW8	18.2%						
		BW6	90.9%				
BW4	90.9%						
BW6	90.9%						
Others Found		Others Found		Others Found		Others Found	
		B70	9.1%				

Table 11. Individual laboratory results for Cell #1625

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*01	*34	*14	*57	*06	*08	*01:01	*34:02	*14:02	*57:01	*06:02	*08:02		
725	*01	*34	*14	*57	*06	*08							SSO	
745							*01:01:01:01	*34:02:01	*14:02:01:01	*57:01:01:01	*06:02:01:01	*08:02:01:01	SSP SBT NGS	
747	*01	*34	*14	*57	*06	*08	*01:01:01:01	*34:02:01	*14:02:01:01	*57:01:01	*06:02:01:01	*08:02:01:01	SSP SSO NGS	
762							*01:01:01:01	*34:02:01	*14:02:01:01	*57:01:01:01	*06:02:01:01	*08:02:01:01	NGS	
771	*01	*34	*14	*57	*06	*08	*01:01	*34:02	*14:02	*57:01	*06:02	*08:02	SSO SBT	
774	*01	*34	*14	*57	*06	*08			*14:02	*57:01			SSP SSO	B*14:39 B*57:29 B*57:37 B*57:55 B*57:01
779	*01	*34	*14	*57	*06	*08			*14:02				SSP SSO	
3186	*01	*34	*14	*57	*06	*08							SSO	
3545	*01	*34	*14	*57	*06	*08	*01:01	*34:02	*14:02	*57:01	*06:02	*08:02	SSO SBT	A*01:234 C*06:83 A*01:237
3632	*01	*34	*14	*57	*06	*08	*01:01	*34:02	*14:02	*57:01	*06:02	*08:02	SSP SSO	
3766	*01	*34	*14	*57	NT	NT							SSO	
3808	*01	*34	*14	*57	*06	*08							SSP	
4079	*01	*34	*14	*57	*06	*08							SSP SSO	
4251	*01	*34	*14	*57	*06	*08	*01:01:01G	*34:02	*14:02	*57:01	*06:02:01G	*08:02	SSO SBT	
5133							*01:01:01:01	*34:02:01	*14:02:01:01	*57:01:01:01	*06:02:01:01	*08:02:01:01	NGS	
5214	*01	*34	*14	*57	*06	*08							SSO	
5462	*01	*34	*14	*57	*06	*08	*01:01	*34:02	*14:02	*57:01	*06:02	*08:02	SSO NGS	
6649	*01	*34	*14	*57									SSO	
8001	*01	*34	*14	*57	*06	*08							SSP SSO	
8070							*01:01	*34:02	*14:02	*57:01	*06:02	*08:02	SBT	

Table 12. Individual laboratory results for Cell #1626

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*29	*35	*44	*04	*16	*11:01	*29:02	*35:01	*44:03	*04:01	*16:01		
725	*11	*29	*35	*44	*04	*16							SSO	
745							*11:01:01:01	*29:02:01:01	*35:01:01	*44:03:01	*04:01:01:05	*16:01:01:01	SSP SBT NGS	
747	*11	*29	*35	*44	*04	*16	*11:01:01:01	*29:02:01:01	*35:01:01:05	*44:03:01	*04:01:01:05	*16:01:01:01	SSP SSO NGS	
762							*11:01:01:01	*29:02:01:01	*35:01:01:05	*44:03:01	*04:01:01:05	*16:01:01:01	NGS	
771	*11	*29	*35	*44	*04	*16	*11:01	*29:02	*35:01	*44:03	*04:01	*16:01	SSO SBT	
774	*11	*29	*35	*44	*04	*16							SSP SSO	
779	*11	*29	*35	*44	*04	*16							SSP SSO	
3186	*11	*29	*35	*44	*04	*16							SSO	
														A*29:100 C*16:111 C*16:112 A*11:263 A*29:95 B*35:42 B*35:332 B*35:347 C*04:30 C*04:82 C*04:226 C*04:275 C*04:277
3545	*11	*29	*35	*44	*04	*16	*11:01	*29:02	*35:01	*44:03	*04:01	*16:01	SSO SBT	
3632	*11	*29	*35	*44	*04	*16	*11:01	*29:02	*35:01	*44:03	*04:01	*16:01	SSP SSO	
3766	*11	*29	*35	*44	NT	NT							SSO	
3808	*11	*29	*35	*44	*04	*16							SSP	
4079	*11	*29	*35	*44	*04	*16							SSP SSO	
4251	*11	*29	*35	*44	*04	*16	*11:01:01G	*29:02:01G	*35:01:01G	*44:03	*04:01P	*16:01:01G	SSO SBT	
5133							*11:01:01:01	*29:02:01:01	*35:01:01:05	*44:03:01	*04:01:01:05	*16:01:01:01	NGS	
5214	*11	*29	*35	*44	*04	*16							SSO	
5462	*11	*29	*35	*44	*04	*16	*11:01	*29:02	*35:01	*44:03	*04:01	*16:01	SSO NGS	
6649	*11	*29	*35	*44									SSO	
8001	*11	*29	*35	*44	*04	*16							SSP SSO	
8070							*11:01	*29:02	*35:01	*44:03	*04:01	*16:01	SBT	

Table 13. Individual laboratory results for Cell #1627

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*23	*30	*53	*53	*04	*08	*23:01	*30:02	*53:01	*53:01	*04:01	*08:02		
725	*23	*30	*53		*04	*08							SSO	
745							*23:01:01	*30:02:01:02	*53:01:01		*04:01:01	*08:02:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*23:01:01	*30:02:01:02	*53:01:01		*04:01:01	*08:02:01:01	NGS	
771	*23	*30	*53		*04	*08	*23:01	*30:02	*53:01		*04:01	*08:02	SSO SBT	
774	*23	*30	*53		*04	*08							SSP SSO	
779	*23	*30	*53		*04	*08							SSP SSO	
3186	*23	*30	*53	*53	*04	*08							SSO	
3545	*23	*30	*53		*04	*08	*23:01	*30:02	*53:01		*04:01	*08:02	SSO SBT	A*23:17 C*04:30 C*04:82 C*04:226 C*04:275 C*04:277
3632	*23	*30	*53		*04	*08	*23:01	*30:02	*53:01		*04:01	*08:02	SSP SSO	
3766	*23	*30	*53		NT	NT							SSO	B*35 B*58
3808	*23	*30	*53	*53	*04	*08	*23:01:01G	*30:02	*53:01	*53:01	*04:01:01G	*08:02	SSP	
4079	NT												SSP SSO	
4251	*23	*30	*53	*53	*04	*08	*23:01:01G	*30:02	*53:01	*53:01	*04:01P	*08:02	SSO SBT	
5133							*23:01:01	*30:02:01:02	*53:01:01		*04:01:01	*08:02:01:01	NGS	
5214	*23	*30	*53		*04	*08							SSO	
5462	*23	*30	*53		*04	*08	*23:01	*30:02	*53:01		*04:01	*08:02	SSO NGS	
6649	*23	*30	*53										SSO	
8001	*23	*30	*53		*04	*08							SSP SSO	
8070							*23:01	*30:02	*53:01		*04:01	*08:02	SBT	

Table 14. Individual laboratory results for Cell #1628

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*01	*02	*51	*57	*07	*15	*01:01	*02:06	*51:01	*57:01	*07:01	*15:02		
725	*01	*02	*51	*57	*07	*15							SSO	
745							*01:01:01:01	*02:06:01:01	*51:01:01	*57:01:01:01	*07:01:01	*15:02:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*01:01:01:01	*02:06:01:01	*51:01:01:05	*57:01:01:01	*07:01:01:01	*15:02:01:01	NGS	
771	*01	*02	*51	*57	*07	*15	*01:01	*02:06	*51:01	*57:01	*07:01	*15:02	SSO SBT	
774	*01	*02	*51	*57	*07	*15				*57:01			SSP SSO	B*57:14 B*57:29 B*57:37 B*57:55
779	*01	*02	*51	*57	*07	*15							SSP SSO	
3186	*01	*02	*51	*57	*07	*15							SSO	
3545	*01	*02	*51	*57	*07	*15	*01:01	*02:06	*51:01	*57:01	*07:01	*15:02	SSO SBT	A*01:237 A*01:234 B*51:193 B*51:224 C*07:06 C*07:18 C*07:343 C*07:419 C*07:458 C*07:591 C*07:610 C*15:87
3632	*01	*02	*51	*57	*07	*15	*01:01	*02:06	*51:01	*57:01	*07:01	*15:02	SSP SSO	
3766	*01	*02	*51	*57	NT	NT							SSO	
3808	*01	*02	*51	*57	*07	*15					*07:01:01G		SSP	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*01	*02	*51	*57	*07	*15	*01:01:01G	*02:06	*51:01P	*57:01	*07:01:01G	*15:02:01G	SSO SBT	
5133							*01:01:01:01	*02:06:01:01	*51:01:01:05	*57:01:01:01	*07:01:01:01	*15:02:01:01	NGS	
5214	*01	*02	*51	*57	*07	*15							SSO	
5462	*01	*02	*51	*57	*07	*15	*01:01	*02:06	*51:01	*57:01	*07:01	*15:02	SSO NGS	
6649	*01	*02	*51	*57									SSO	
8001	*01	*02	*51	*57	*07	*15							SSP SSO	
8070							*01:01	*02:06	*51:01	*57:01	*07:01	*15:02	SBT	

Table 15. Individual laboratory results for Cell #1625-1628 by serology

Investigator	Days Old	Cell No 1625 (Mixed)					Cell No 1626 (Hispanic)							Cell No 1627 (Black)					Cell No 1628 (Hispanic)																			
		Viab %	A1	A34	B14	B57	Cw6	Cw8	Bw4	Bw6	OTHERS	Viab %	A11	A29	B35	B44	Bw4	Bw6	Cw4	Cw16	OTHERS	Viab %	A23	A30	B53	Cw4	Cw8	Bw4	OTHERS	Viab %	A1	A2	B51	B57	Cw7	Cw15	Bw4	OTHERS
Cecka, J. Mic	3	>95	+	+	B65	+					>95	+	+	+	+	+	+				>95	+	+	+				+		>95	+	+	+	+				
Enczmann, J		90	+	+	B65	+					90	+	+	+	+						90	+	+	+					90	+	+	+	+					
Fort, Marylis	6	97	+	+	+	+					98	+	+	+	+	+	+				NT								NT									
Hahn, Amy B.		99	+	+	+	+					99	+	+	B70	+	+	+				99	+	+	+				+	99	+	+	+	+				+	
Hogan, Patric		90	+	+	B65	+					90	+	+	+	+	+	+	+			90	+	+	+	+	+	+		90	+	+	+	+	+			+	
Hubbell, Char		95	+	+	B65	+					95	+	+	+	+	+	+				95	+	+	+				+	95	+	+	+	+				+	
Latham, Katy	6	95	+	+	B65	+					95	+	+	+	+	+	+				90	+	+	+				+	90	+	+	+	+				+	
Permpikul, Ve	7	90	+	+	B65	+					90	A11.1	+	+	+	+	+				90	+	+	+				+	90	+	+	+	+				+	
Renac, Virgin	37	99	+	A10	+	+					99	+	+	+	+	+	+				99	+	+	+				+	99	+	+	+	+				+	
Shai, Isaac	NT										NT										NT								NT									
Vidan-Jeras,	7	100	+	+	B65	+	+	+	+	+	100	+	+	+	+	+	+	+			100	+	+	+	+	+	+		100	+	+	+	+	+			+	
Villard, Jean	???	90	+	+	+	+	+	+	+	+	85	+	+	+	+	+	+	+	+																			

SERUM EXCHANGE #565

The results for **Serum Exchange 565 (sera 1253 - 1256)**, are summarized in Tables 16 - 23 and individual laboratory results by method are listed

in Tables 24 - 34. Sera positive to A10, A11, Cw7, and to a number of DR and DP specificities were examined in this study.

1253	method	#abs	A1	A11	A1101	A1102	A26	A36	B8	A24	A2403	A3	A23	A29	B54	A80	A32	A33	Cw7
class I	NIH-Std	1	no consensus																
	NIH-Ext	2					50%												
	AHG	3	67%	33%			33%	67%									33%	33%	33%
	Luminex	27	100%	89%	26%	26%	78%	100%	100%	93%	33%	100%	93%	96%	70%		81%	59%	
	Flow	3	no specificities assigned																
	C1q	2							100%										50%
	Other	2	100%	100%				100%	100%	100%		100%	50%	50%	50%	100%			

1253	method	#abs	B37	B49	A80	A34	A30	B59	A74	A31	A43	A25	A68	A66	A6601	A6602	B65	B18	B75
class I	NIH-Ext	2	50%	50%															
	Luminex	27			96%	93%	89%	81%	74%	67%	59%	48%	44%	41%	19%	19%	33%	26%	26%

1253	method	#abs	DR11	DR13	DR14	DR17	DR18	DP14	DP17	DP18	DP28	DP9	DPw3	DPw6	DPw2	DP10	DP20	DPw4	DR8	DP402	DR12	DR52
class II	NIH-Ext	1	undetermined																			
	Luminex	22	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	76%	76%	68%	56%	44%	40%	20%
	Flow	25	no specificities assigned																			
	Other	2	100%	100%	100%	100%	100%															

Serum 1253 was found to be positive to a number of 1C specificities, including A1, A11, and A36, by Luminex SAB, Luminex PRA and anti-globulin. Anti-Cw7 reactivity was detected by one lab reporting by NIH-standard and 1 lab reporting by C1q, while strong anti-B8 reactivity with medium MFI = 15920 was reported by C1q, Luminex SAB, and Luminex PRA.

For class II, anti-DR11 reactivity (MFI = 7034) was reported in this sample by Luminex SAB and Luminex PRA. Additional reactivity to DR13, DR14, DR17, and DR18 was also detected by the 2 methods. In addition, Luminex SAB reported reactivity to a number of DP specificities (DP3, DP6, DP9, DP14, DP17, DP18, and DP18), with MFI values between 7500 and 8800.

1254	method	#abs	A11	A1101	A1102	A25	A26	A34	A66	A6601	A6602	A1	A36	A80	B55	B61	B81	B45	B44	A43	A68	B47	B49	B50	B73	B42	B60	B7	B54	B67	Cw7	Cw18	Cw6	Cw4
class I	NIH-Std	1	no consensus																															
	NIH-Ext	2	100%			50%	100%	50%	50%																									
	AHG	3	100%			33%	67%	33%	33%			67%	100%		33%	33%	67%	33%																
	Luminex	27	89%	26%	26%	100%	100%	100%	89%	33%	33%	100%	100%	100%	100%	93%	78%	100%	100%	100%	100%	100%	100%	100%	100%	96%	96%	93%	93%	93%	93%	93%	93%	56%
	Flow	3	no specificities assigned																															
	C1q	2	50%	50%	50%	100%	100%	100%	50%	50%		100%	100%	100%						100%											100%	100%	100%	50%
	Other	2	100%			100%	100%	50%	100%			100%	100%	50%	50%	50%	50%	50%			50%	50%	50%	50%	50%	50%	50%	50%	50%					

1254	method	#abs	B56	B37	B82	B8201	B13	B48	B52	B41	B71	B38	B18	B59	B72	B39	B64	A69	A2	B58	B27	B51	B78	B65	B35	B76	A24	A2403	B53	B8101	Cw12	Cw15	A33	A10	
	AHG	3																																33%	
class I	Luminex	27	93%	89%	81%	22%	78%	74%	70%	100%	93%	89%	81%	78%	78%	78%	59%	59%	59%	56%	52%	48%	48%	41%	37%	37%	30%	19%	30%	30%	30%	30%	22%		
	Other	2	50%	50%	50%		50%	50%	50%																										

1254	method	#abs	DR7	DR9	DR12	DQ2	DR52	DR53
class II	NIH-Ext	1	undetermined					
	Luminex	25	100%	100%	96%	92%	92%	64%
	Flow	3	no specificities assigned					
	Other	2	100%	100%	50%	50%		

For **serum 1254**, strong anti-A11 (median MFI = 19389) reactivity was reported by all methods, with Luminex SAB and C1q assigning allele specific A*11:01 and A*11:02 reactivity. In addition, reactivity to A1, A36, A80, B45, B55, B61, and B81, as well as reactivity to a number of 10C specificities was reported by various methods. Additional C-locus reactivity (Cw4, Cw6, Cw7,

and Cw18), was also detected in this sample by Luminex and C1q .

For class II, anti-DR7 reactivity was reported by Luminex, with medium MFI = 6948. Additional reactivity to DR9, DR12, DR52, DR53, and DQ2 was also reported by Luminex. A number of labs (n=6) reported allele specific DRB3*01:01 and DRB3*03:01 reactivity.

1255	method	#abs	A25	A26	A66	A6601	A6602	A34	B57	B58	B63	B38	B39	B3901	A11	A1101	A1102	A29	A33	A36	A1
class I	NIH-Std	1	no consensus																		
	NIH-Ext	2	50%	100%	50%																
	AHG	3	67%	67%	67%			33%	33%	33%	33%	33%	33%		33%						
	Luminex	27	100%	100%	89%	33%	30%	100%	100%	100%	100%	93%	81%	22%	89%	26%	26%	100%	89%	78%	78%
	Flow	3	no specificities assigned																		
	C1q	2	100%	100%		50%															
	Other	2	100%	100%	100%			100%	50%	50%	50%	50%	50%		50%			50%	50%	50%	50%

1255	method	#abs	A30	B67	B55	Cw7	A43	A68	A80	B54	B56	B41	B42	A31	A69	A74	B59	B73	B8	A10
class I	AHG	3			33%	33%														33%
	Luminex	27	74%	81%	81%		100%	81%	81%	96%	74%	59%	59%	52%	52%	44%	41%	22%	22%	
	C1q	2				50%														
	Other	2	50%	50%																

1255	method	#abs	DR7	DR9	DR10	DR11	DR12	DR13	DR14	DR17	DR18	DR52	DP18	DP28	DPw2	DPw3	DPw6	DP14	
class II	NIH-Ext	1	Undetermined																
	Luminex	25	96%	96%	96%	100%	96%	96%	96%	100%	100%	100%	100%	100%	100%	100%	100%	96%	
	Flow	3	no specificities assigned																
	Other	2	100%	100%	50%	100%	100%	100%	100%	100%	100%	50%							

1255	method	#abs	DP17	DP9	DQ7	DQ6	DP10	DP20	DQ9	DPw4	DQ8	DP402	DQA1*01	DPw1	DPw5	DQA1*05	DQA1*03	DQA1*06
class II	Luminex	25	96%	96%	84%	80%	76%	76%	68%	68%	64%	56%	36%	32%	32%	24%	20%	20%

Serum 1255 was reported as positive to A25 and A26 by NIH-extended, antiglobulin, Luminex, and C1q, with Luminex reporting respective MFI values = 14297 and 13466 for each. Additional reactivity to A66, A34, B57, B58, B63, B38, A11, and B39 was also reported by various methods. In addition, reactivity to A29 and A43 was reported by Luminex, with respective median MFI = 5192 and 9335.

For class II, strong anti-DR11 (11792) reactivity was reported by Luminex SAB and Luminex PRA. Additional reactivity DR7, DR9, DR10, DR12, DR13, DR14, DR17, DR18, and DR52 was also reported. Strong reactivity to a number of DP specificities (DP2, DP3, DP6, DP9, DP14, DP17, DP18, DP28) was also reported by Luminex SAB, with MFI > 11000. Allele specific DQB1*06:01 and DQB1*06:03 reactivity was reported by 6 labs.

1256	method	#abs	Cw7	Cw12	Cw17	B7	B8	B73	B35	B62	B75	B64	B55	B56	B67	B42	A25	A80	A3	A1	Cw18	Cw6	B46	B39	A34	A26	A36	A11	A66	A6601
class I	NIH-Std	1	no consensus																											
	NIH-Ext	2	50%																											
	AHG	3	100%		33%	33%	33%																							
	Luminex	27	96%	96%	100%	89%	89%	100%	96%	96%	93%	89%	85%	85%	81%	81%	78%	78%	74%	74%	74%	70%	74%	70%	67%	63%	63%	59%	26%	41%
	Flow	3	100%																											
	C1q	2	100%	100%	100%			100%																						
	Other	2	50%	100%		100%	100%		100%	50%	50%	50%	50%	50%	50%	50%	100%	50%	50%	50%	50%	100%	50%	50%	50%	50%	50%	50%	50%	
1256	method	#abs	B45	Cw16	Cw10	Cw1	Cw14	Cw2	Cw15	B13	B70	B71	B72	B18	B76	B61	B54	B82	B65	B41	Cw8	B60	A43	B2708	B27	B48	B50	B81	B8101	Bw6
class I	AHG	3									33%																			
	Luminex	27	41%	44%	37%							96%	93%	93%	93%	81%	81%	81%	78%	74%	74%	56%	52%	52%	52%	48%	48%	48%	22%	26%
	C1q	2		100%	50%	100%	100%	100%	50%	50%																				
	Other	2	50%																											

1256	method	#abs	NEG	DP11
class II	NIH-Ext	1	no consensus	
	Luminex	17	88%	17%
	Flow	3	100%	
	Other	1	50%	

For **Serum 1256**, strong anti-Cw7 reactivity was reported by all methods, with Luminex reporting medium MFI values = 21454 for Cw7. Additional reactivity to Cw12, Cw17, B7, and B8 was also reported by various methods. Strong Anti-B73 (21017) reactivity was reported by C1q and Luminex SAB. In

addition, Luminex SAB and Luminex PRA reported reactivity to B64 and B39, along with reactivity to a number of 1C, 5C, 7C, 10C, and C-locus antigens. This sample was reported as negative for class II.

NEXT MAILING DATE: February 6, 2019

Happy Holidays!

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



Table 16. Summary of the 565th Serum Exchange (Serum #1253-1256) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard											
*** Serum 1253 ***			*** Serum 1254 ***			*** Serum 1255 ***			*** Serum 1256 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

Method: NIH-Extended											
*** Serum 1253 ***			*** Serum 1254 ***			*** Serum 1255 ***			*** Serum 1256 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A26	50%	100%	A11	100%	100%	A26	100%	100%	Cw7	50%	85%
B37	50%	100%	A26	100%	100%	A66	50%	50%			
B49	50%	80%	A25	50%	100%	A25	50%	33%			
			A34	50%	100%						
			A66	50%	100%						

Table 17. Summary of the 565th Serum Exchange (Serum #1253-1256) by Antiglobulin and Flow Cytometry - class I

Method: Antiglobulin											
*** Serum 1253 ***			*** Serum 1254 ***			*** Serum 1255 ***			*** Serum 1256 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A1	67%	56%	A36	100%	100%	A25	67%	100%	Cw7	100%	95%
A36	67%	33%	A11	100%	90%	A26	67%	100%	B7	33%	100%
A11	33%	100%	B81	67%	100%	A66	67%	100%	B8	33%	100%
A26	33%	100%	A1	67%	78%	A10	33%	100%	Cw17	33%	100%
Cw7	33%	100%	A26	67%	60%	A34	33%	100%	B70	33%	50%
A32	33%	29%	A10	33%	100%	B39	33%	100%			
A33	33%	20%	A25	33%	100%	B57	33%	100%			
			A34	33%	100%	B58	33%	100%			
			A66	33%	100%	B63	33%	100%			
			B45	33%	100%	Cw7	33%	100%			
			B61	33%	100%	A11	33%	73%			
			B55	33%	75%	B38	33%	67%			
						B55	33%	67%			

Method: Flow Cytometry											
*** Serum 1253 ***			*** Serum 1254 ***			*** Serum 1255 ***			*** Serum 1256 ***		
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 565th Serum Exchange (Serum #1253-1256) by Other - class I

Method: Other											
*** Serum 1253 ***			*** Serum 1254 ***			*** Serum 1255 ***			*** Serum 1256 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A1	100%	100%	A1	100%	100%	A25	100%	100%	A25	100%	100%
A11	100%	100%	A11	100%	100%	A26	100%	100%	B35	100%	100%
A24	100%	100%	A25	100%	100%	A34	100%	100%	B7	100%	100%
A3	100%	100%	A26	100%	100%	A66	100%	100%	B8	100%	100%
A36	100%	100%	A36	100%	100%	A1	50%	100%	A1	50%	100%
A80	100%	100%	A66	100%	100%	A11	50%	100%	A11	50%	100%
B8	100%	100%	A34	50%	100%	A29	50%	100%	A26	50%	100%
A23	50%	100%	A68	50%	100%	A30	50%	100%	A3	50%	100%
A29	50%	100%	A80	50%	100%	A33	50%	100%	A34	50%	100%
B54	50%	100%	B13	50%	100%	A36	50%	100%	A36	50%	100%
			B37	50%	100%	B38	50%	100%	A66	50%	100%
			B42	50%	100%	B39	50%	100%	A80	50%	100%
			B44	50%	100%	B57	50%	100%	B39	50%	100%
			B45	50%	100%	B58	50%	100%	B42	50%	100%
			B47	50%	100%	B63	50%	100%	B46	50%	100%
			B48	50%	100%	B67	50%	100%	B55	50%	100%
			B49	50%	100%				B56	50%	100%
			B50	50%	100%				B62	50%	100%
			B52	50%	100%				B64	50%	100%
			B54	50%	100%				B67	50%	100%
			B55	50%	100%				B75	50%	100%
			B56	50%	100%				Cw7	50%	100%
			B60	50%	100%						
			B61	50%	100%						
			B67	50%	100%						
			B7	50%	100%						
			B81	50%	100%						
			B82	50%	100%						

Other = Luminex PRA

Table 19. Summary of the 565th Serum Exchange (Serum #1253-1256) by Luminex - class I

Method: Luminex											
*** Serum 1253 ***			*** Serum 1254 ***			*** Serum 1255 ***			*** Serum 1256 ***		
27 typing Labs			27 typing Labs			27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A1	100%	100%	A1	100%	100%	A25	100%	100%	B73	100%	100%
A3	100%	100%	A25	100%	100%	A26	100%	100%	Cw17	100%	60%
A36	100%	100%	A26	100%	100%	A29	100%	100%	B35	96%	100%
B8	100%	100%	A34	100%	100%	A34	100%	100%	B62	96%	100%
A80	96%	100%	A36	100%	100%	A43	100%	100%	B71	96%	100%
A29	96%	67%	A43	100%	100%	B57	100%	100%	Cw7	96%	91%
A23	93%	80%	A68	100%	100%	B58	100%	100%	Cw12	96%	67%
A24	93%	80%	A80	100%	100%	B63	100%	100%	B75	93%	100%
A34	93%	50%	B41	100%	100%	B54	96%	100%	B18	93%	80%
A11	89%	86%	B44	100%	100%	B38	93%	100%	B72	93%	50%
A30	89%	75%	B45	100%	100%	A66	89%	100%	B76	93%	50%
B59	81%	100%	B47	100%	100%	A11	89%	93%	B7	89%	100%
A32	81%	67%	B49	100%	100%	A33	89%	67%	B8	89%	100%
A26	78%	100%	B50	100%	100%	B39	81%	100%	B64	89%	50%
A74	74%	33%	B55	100%	100%	B55	81%	100%	B55	85%	100%
B54	70%	100%	B73	100%	100%	B67	81%	100%	B56	85%	100%
A31	67%	0%	B42	96%	100%	A68	81%	50%	B61	81%	100%
A33	59%	100%	B60	96%	100%	A80	81%	33%	B67	81%	100%
A43	59%	100%	B54	93%	100%	A36	78%	100%	B42	81%	75%
A25	48%	100%	B61	93%	100%	A1	78%	90%	B54	81%	67%
A68	44%	100%	B67	93%	100%	A30	74%	75%	B82	81%	50%
A66	41%	100%	B71	93%	100%	B56	74%	67%	A25	78%	100%
A2403	33%	100%	Cw18	93%	100%	B41	59%	100%	B65	78%	75%
B65	33%	100%	Cw6	93%	100%	B42	59%	100%	A80	78%	67%
A1101	26%	100%	Cw7	93%	100%	A31	52%	100%	A3	74%	100%
A1102	26%	100%	B7	93%	80%	A69	52%	100%	B41	74%	67%
B18	26%	100%	B56	93%	67%	A74	44%	100%	Cw8	74%	62%
B75	26%	100%	A11	89%	100%	B59	41%	100%	A1	74%	60%
A6601	19%	100%	A66	89%	100%	A6601	33%	100%	Cw18	74%	50%
A6602	19%	100%	B38	89%	100%	A6602	30%	100%	B46	74%	33%
			B37	89%	67%	A1101	26%	100%	Cw6	70%	100%
			B82	81%	100%	A1102	26%	100%	B39	70%	75%
			B18	81%	80%	B3901	22%	100%	A34	67%	100%
			B59	78%	100%	B73	22%	100%	A26	63%	100%
			B81	78%	100%	B8	22%	100%	A36	63%	100%

Table 19. Summary of the 565th Serum Exchange (Serum #1253-1256) by Luminex - class I

Method: Luminex - cont.					
*** Serum 1254 ***			*** Serum 1256 ***		
27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	78%	80%	A11	59%	43%
B72	78%	75%	B60	56%	100%
B39	78%	67%	A43	52%	100%
B48	74%	33%	B2708	52%	100%
B52	70%	100%	B27	52%	40%
A69	59%	100%	B48	48%	100%
B64	59%	100%	B50	48%	100%
A2	59%	33%	B81	48%	100%
B58	56%	100%	Cw16	44%	100%
Cw4	56%	100%	A6601	41%	100%
B27	52%	100%	B45	41%	100%
B51	48%	100%	Cw10	37%	50%
B78	48%	100%	Bw6	26%	100%
B65	41%	100%	A66	26%	50%
B35	37%	100%	B8101	22%	100%
B76	37%	100%			
A6601	33%	100%			
A6602	33%	100%			
A24	30%	100%			
B53	30%	100%			
B8101	30%	100%			
Cw12	30%	100%			
Cw15	30%	100%			
A1101	26%	100%			
A1102	26%	100%			
A33	22%	100%			
B8201	22%	100%			
A2403	19%	100%			

Table 20. Summary of the 565th Serum Exchange (Serum #1253-1256) by C1q - class I

Method: C1q											
*** Serum 1253 ***			*** Serum 1254 ***			*** Serum 1255 ***			*** Serum 1256 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B8	100%	100%	A1	100%	100%	A25	100%	100%	B73	100%	100%
Cw2	50%	100%	A25	100%	100%	A26	100%	100%	Cw1	100%	100%
Cw6	50%	100%	A26	100%	100%	A6601	50%	100%	Cw12	100%	100%
Cw7	50%	100%	A34	100%	100%	Cw7	50%	100%	Cw14	100%	100%
			A36	100%	100%				Cw16	100%	100%
			A43	100%	100%				Cw17	100%	100%
			A80	100%	100%				Cw2	100%	100%
			Cw18	100%	100%				Cw6	100%	100%
			Cw6	100%	100%				Cw7	100%	100%
			Cw7	100%	100%				B13	50%	100%
			A11	50%	100%				Cw10	50%	100%
			A1101	50%	100%				Cw15	50%	100%
			A1102	50%	100%				Cw18	50%	100%
			A66	50%	100%						
			A6601	50%	100%						
			B73	50%	100%						
			Cw4	50%	100%						

Table 21. Summary of the 565th Serum Exchange (Serum #1253-1256) by NIH-Extended and Flow Cytometry - class II

Method: NIH-Extended											
*** Serum 1253 ***			*** Serum 1254 ***			*** Serum 1255 ***			*** Serum 1256***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		
Method: Flow Cytometry											
*** Serum 1253 ***			*** Serum 1254 ***			*** Serum 1255 ***			*** Serum 1256***		
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 565th Serum Exchange (Serum #1253-1256) by Other - class II

Method: Other											
*** Serum 1253 ***			*** Serum 1254 ***			*** Serum 1255 ***			*** Serum 1256 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR11	100%	100%	DR7	100%	100%	DR11	100%	100%	NEG	50%	100%
DR13	100%	100%	DR9	100%	100%	DR12	100%	100%			
DR14	100%	100%	DQ2	50%	100%	DR13	100%	100%			
DR17	100%	100%	DR12	50%	100%	DR14	100%	100%			
DR18	100%	100%				DR17	100%	100%			
						DR18	100%	100%			
						DR7	100%	100%			
						DR9	100%	100%			
						DR10	50%	100%			
						DR52	50%	100%			

Other = Luminex PRA

Table 23. Summary of the 565th Serum Exchange (Serum #1253-1256) by Luminex - class II

Method: Luminex											
*** Serum 1253 ***			*** Serum 1254 ***			*** Serum 1255 ***			*** Serum 1256 ***		
25 typing Labs			25 typing Labs			25 typing Labs			17 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DP14	100%	100%	DR7	100%	100%	DP18	100%	100%	NEG	88%	100%
DP17	100%	100%	DR9	100%	71%	DP28	100%	100%	DP11	17%	100%
DP18	100%	100%	DR12	96%	75%	DPw2	100%	100%			
DP28	100%	100%	DQ2	92%	86%	DPw3	100%	100%			
DP9	100%	100%	DR52	92%	36%	DPw6	100%	100%			
DPw3	100%	100%	DR53	64%	100%	DR11	100%	100%			
DPw6	100%	100%				DR17	100%	100%			
DR11	100%	100%				DR18	100%	100%			
DR13	100%	100%				DR52	100%	96%			
DR14	100%	100%				DP14	96%	100%			
DR17	100%	100%				DP17	96%	100%			
DR18	100%	100%				DP9	96%	100%			
DPw2	100%	75%				DR10	96%	100%			
DP10	76%	100%				DR13	96%	100%			
DP20	76%	100%				DR14	96%	100%			
DPw4	68%	57%				DR7	96%	100%			
DR8	56%	100%				DR12	96%	88%			
DP402	44%	100%				DR9	96%	86%			
DR12	40%	100%				DQ7	84%	82%			
DR52	20%	100%				DQ6	80%	69%			
						DP10	76%	100%			
						DP20	76%	100%			
						DQ9	68%	100%			
						DPw4	68%	86%			
						DQ8	64%	100%			
						DP402	56%	100%			
						DQA1*01	36%	100%			
						DPw1	32%	100%			
						DPw5	32%	100%			
						DQA1*05	24%	100%			
						DQA1*03	20%	100%			
						DQA1*06	20%	100%			

Table 24. Individual laboratory results for Serum #1253 - 1256 by NIH-Standard and NIH-Extended - class I

		**** Serum 1253 ****				**** Serum 1254 ****				**** Serum 1255 ****				**** Serum 1256 ****								
Ctr	% POS	Cw7			Other	% POS	A11			Other	% POS	Cw7			Other	% POS	Cw7			Other	Method	
786		+					+					+					+					STD

STD = NIH-Standard

		**** Serum 1253 ****					**** Serum 1254 ****				**** Serum 1255 ****				**** Serum 1256 ****						
Ctr	% POS	A26	B37	B49	Other	% POS	A11	A26		Other	% POS	A26			Other	% POS	Cw7			Other	Method
725	17	+	+	+		32	+	+		A66,A25,A34	19	+			A66,A25	51	+				EXT
3753	5					18	+	+			27	+				12					EXT

EXT = NIH-Extended

Table 25. Individual laboratory results for Serum #1253 - 1256 by Antiglobulin and Flow Cytometry - class I

**** Serum 1253 ****					**** Serum 1254 ****						**** Serum 1255 ****				**** Serum 1256 ****					
Ctr	% POS	A1	A36	Other	% POS	A36	A11	B81	A1	A26	Other	% POS	A25	A26	A66	Other	% POS	Cw7	Other	Method
774	18	+	+	A32,A33	50	+	+	+	+	+	B61,B45,B55	44	+	+	+	A11,B55,A34,B63 >	40	+	B70,Cw17	Antiglobulin
786				Cw7		+	+				A10					A10,Cw7		+		Antiglobulin
910		+	+	A11,A26		+	+	+	+	+	A66,A25,A34		+	+	+	B39		+	B7,B8	Antiglobulin

**** Serum 1253 ****					**** Serum 1254 ****						**** Serum 1255 ****				**** Serum 1256 ****					
Ctr	% POS			Other	% POS						Other	% POS				Other	% POS		Other	Method
3224	81				99							96					96			FC
5214	95				99							96					95			FC
8067	96				94							97					97			FC

FC = Flow cytometry

Table 26. Individual laboratory results for Serum #1253 - 1256 by Other - class I

Ctr	**** Serum 1253 ****									**** Serum 1254 ****							**** Serum 1255 ****					**** Serum 1256 ****					Method			
	% POS	A1	A11	A24	A3	A36	A80	B8	Other	% POS	A1	A11	A25	A26	A36	A66	Other	% POS	A25	A26	A34	A66	Other	% POS	A25	B35		B7	B8	Other
2400		+	+	+	+	+	+	+	B54,A29,A23		+	+	+	+	+	+	B60,B61,B48,B49 >		+	+	+	+	A11,B67,A1,A29 >		+	+	+	+	B62,B75,B55,B56 >	Other
3753	86	+	+	+	+	+	+	+		88	+	+	+	+	+	+	A34,A68,A80	82	+	+	+	+		84	+	+	+	+	A11,A66,A26,A34 >	Other

Other = Luminex PRA

Table 27. Individual laboratory results for Serum #1253 by Luminex - class I

		**** Serum 1253 ****																																
Ctr	% POS	A1	A3	A36	B8	A80	A29	A23	A24	A34	A11	A30	B59	A32	A26	A74	B54	A31	A33	A43	A25	A68	A66	A2403	B65	A1101	A1102	B18	B75	Other	Method			
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+					A69	LMX			
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
774	64	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+															
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	A69,A6601,A6602	LMX			
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+									
1647	11	+	+	+	+	+	+		+	+	+																							
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
3224		+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+		+		+	+		A6601,A6602	LMX			
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+				+	+	A69,B64,B76,B*15:11	LMX		
3632	92	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+			+	+	A69	LMX			
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											A*34:02	LMX		
3766	92	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+			A6601,A6602	LMX			
3808	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+																			
3966	16	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+								+									
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+									
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							A6601,A6602	LMX			
5219	17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	A9,A19,A1C	LMX				
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+						
6649	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+																			
8045	15	+	+	+	+	+	+	+	+	+	+	+													+									
8048	76	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	A6601,A6602	LMX			
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+								
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+				+	+	B15	LMX		
8086	14	+	+	+	+	+	+	+	+	+	+	+	+	+																				
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							A1C	LMX			
8103		+	+	+	+	+	+	+		+					+										+		+	+						

Table 28. Individual laboratory results for Serum #1254 by Luminex - class I (Cont.)

**** Serum 1254 ****											
Ctr	B63	B8101	Cw12	Cw15	A1101	A1102	A33	B8201	A2403	Other	Method
615	+		+	+			+			A29,A31,B8	LMX
725											LMX
774											LMX
786	+	+	+	+	+	+	+	+		A203,B2708	LMX
910											LMX
1647											LMX
2400											LMX
3224	+	+	+	+	+	+		+	+	A203,B2708,B7801	LMX
3582	+		+	+			+			A29,A31,B8,Cw1, A*29:02 >	LMX
3632	+		+	+			+		+	A29	LMX
3753											LMX
3766		+			+	+	+	+	+		LMX
3808		+								B3901	LMX
3966			+	+							LMX
4322	+		+	+			+		+	B8,Cw1,Cw5,Cw8 >	LMX
5214	+										LMX
5219		+			+	+			+	Cw403,B40,B70,A10 >	LMX
5462		+			+	+			+	B3901	LMX
6649											LMX
8045											LMX
8048		+			+	+			+	A203,B3901	LMX
8062											LMX
8082	+		+	+						B8,Cw8	LMX
8086											LMX
8090											LMX
8100										B12C,B7C,A10C	LMX
8103		+			+	+				B40,B15	LMX

Table 29. Individual laboratory results for Serum #1255 by Luminex - class I

		**** Serum 1255 ****																																													
Ctr	% POS	A25	A26	A29	A34	A43	B57	B58	B63	B54	B38	A66	A11	A33	B39	B55	B67	A68	A80	A36	A1	A30	B56	B41	B42	A31	A69	A74	B59	A6601	A6602	A1101	A1102	B3901	B73	B8	Other	Method									
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		LMX					
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX				
774	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX				
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,Cw7,Cw18	LMX				
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX				
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX				
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX				
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX			
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX			
3632	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,Cw7,Cw18	LMX			
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A*30:02,A*68:01	LMX			
3766	74	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX			
3808	25	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX		
3966	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX		
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw7,Cw18	LMX			
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX		
5219	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A10,B16,B17	LMX			
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
6649	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
8045	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
8048	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8086	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A10C	LMX	
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15	LMX	

Table 30. Individual laboratory results for Serum #1256 by Luminex - class I

**** Serum 1256 ****																																																					
Ctr	% POS	B73	Cw17	B35	B62	B71	Cw7	Cw12	B75	B18	B72	B76	B7	B8	B64	B55	B56	B61	B67	B42	B54	B82	A25	B65	A80	A3	B41	Cw8	A1	Cw18	B46	Cw6	B39	A34	A26	A36	A11	B60	A43	B2708	B27	B48	B50	B81	Cw16	A6601	B45	Other	Method				
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw10, B*40:02, C*03:02	LMX			
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
774	58	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,Cw10,A1101>	LMX	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6	LMX		
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,Cw10,A1101>	LMX	
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A66,B78,C*03:02	LMX	
3632	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6,Cw10	LMX	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6	LMX	
3766	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B8101,Cw10>	LMX	
3808	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66	LMX	
3966	25	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101	LMX	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A66,Cw10,Cw3	LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6	LMX	
5219	11	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B70,B22 >	LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,A1102,B8201>	LMX	
6649	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8045	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B3901	LMX	
8048	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,Cw10,A1101>	LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6,Cw10	LMX	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A66,Bw6,Cw10	LMX	
8086	52	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,Cw10	LMX	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,A10C	LMX	
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,Cw3	LMX	

Table 31. Individual laboratory results for Serum #1253 - #1256 by C1q - class I

**** Serum 1253 ****				**** Serum 1254 ****											**** Serum 1255 ****				**** Serum 1256 ****													
Ctr	% POS	B8	Other	% POS	A1	A25	A26	A34	A36	A43	A80	Cw18	Cw6	Cw7	Other	% POS	A25	A26	Other	% POS	B73	Cw1	Cw12	Cw14	Cw16	Cw17	Cw2	Cw6	Cw7	Other	Method	
2400		+			+	+	+	+	+	+	+	+	+	+	A11,A66		+	+			+	+	+	+	+	+	+	+	+	+	Cw18	C1q
786		+	Cw6,Cw2,Cw7		+	+	+	+	+	+	+	+	+	+	Cw4,B73,A1101,A1102 >		+	+	Cw7,A6601		+	+	+	+	+	+	+	+	+	+	B13,Cw10,Cw15	C1q

Table 32. Individual laboratory results for Serum #1253 - #1256 by NIH-Extended, Flow Cytometry, and Other - class II

Ctr	**** Serum 1253 ****						**** Serum 1254 ****				**** Serum 1255 ****						**** Serum 1256 ****				Method
	% POS					Other	% POS		Other	% POS					Other	% POS		Other			
3753	27						27			59						7			EXT		

Ext = NIH-Extended

Ctr	**** Serum 1253 ****						**** Serum 1254 ****				**** Serum 1255 ****						**** Serum 1256 ****				Method
	% POS					Other	% POS		Other	% POS					Other	% POS		Other			
3224	82						52			96						0			FC		
5214	92						61			96						0			FC		
8067	81						67			91						0			FC		

FC = Flow cytometry

Ctr	**** Serum 1253 ****							**** Serum 1254 ****				**** Serum 1255 ****									**** Serum 1256 ****				Method
	% POS	DR11	DR13	DR14	DR17	DR18	Other	% POS	DR7	DR9	Other	% POS	DR11	DR12	DR13	DR14	DR17	DR18	DR7	DR9	Other	% POS		Other	
2400		+	+	+	+	+			+	+	DR12		+	+	+	+	+	+	+	+	DR52				Other
3753	53	+	+	+	+	+		43	+	+	DQ2	73	+	+	+	+	+	+	+	+	DR10	0			Other

Other = Luminex PRA

Table 33. Individual laboratory results for Serum #1253 -1254 by Luminex - class II

Ctr	**** Serum 1253 ****																	**** Serum 1254 ****							Method						
	% POS	DP14	DP17	DP18	DP28	DP9	DPw3	DPw6	DR11	DR13	DR14	DR17	DR18	DPw2	DP10	DP20	DPw4	DR8	DP402	DR12	DR52	Other	% POS	DR7		DR9	DR12	DQ2	DR52	DR53	DQA1*05
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPB1*04:02		+	+	+	+	+	+	DRB3*01:01,DRB3*03:01	LMX
774	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						34	+	+	+	+	+			LMX
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+				+	+	+	+		+		LMX
1647		+	+	+	+	+	+	+	+	+	+	+	+	+					+					+	+						LMX
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							+	+	+	+	+			LMX
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		weak DR52		+	+	+	+	+	+	DRB3*01:01,DRB3*03:01	LMX
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	DP19,DPB1*04:02		+	+	+	+	+	+	DRB3*01:01,DRB3*03:01	LMX
3632	62	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+				67	+	+	+	+	+	+		LMX
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+					+	+	+	+	+	+	DRB3*01:01,DRB3*03:01	LMX
3766	81	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						69	+	+	+	+	+	+		LMX
3808	22	+	+	+	+	+	+	+	+	+	+	+	+	+			+						10	+	+	+	+	+			LMX
3966	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					DPA1*01,DPA1*02,DPA1*04	14	+	+	+	+	+	+		LMX
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	DPA1*01,DPA1*02,DPA1*03,DPA1*04		+	+	+	+	+	+	DQA1*04	LMX
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+					+	+	+	+	+	+	DRB3*01:01,DRB3*03:01	LMX
5219	24	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		+	+	DR3,DR5,DR6,DR1403 >	8	+	+	+	+	+			LMX
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+			DPB1*04:02		+	+	+	+	+	+	DRB3*01:01,DRB3*03:01	LMX
6649	100	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		+		DR1403,DR1404	100	+	+	+	+	+			LMX
8045	26	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		+		DR1403,DR1404	10	+	+	+	+	+			LMX
8048	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+				37	+	+	+	+	+	+		LMX
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+					+	+	+	+	+	+		LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP19,DPA1*01		+	+	+	+	+	+		LMX
8086	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						12	+	+	+	+	+	+		LMX
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							+	+	+	+	+	+		LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							+	+	+	+	+	+		LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		+		DR3,DR1403,DR1404		+	+	+	+	+			LMX

Table 34. Individual laboratory results for Serum #1255 - #1256 by Luminex - class II

		**** Serum 1255 ****																				**** Serum 1256 ****																					
Ctr	% POS	DP18	DP28	DPw2	DPw3	DPw6	DR11	DR17	DR18	DR52	DP14	DP17	DP9	DR10	DR13	DR14	DR7	DR12	DR9	DQ7	DQ6	DP10	DP20	DQ9	DPw4	DQ8	DP402	DQA1*01	DPw1	DPw5	DQA1*05	DQA1*03	DQA1*06	Other	% POS	DP11	Other	Method					
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								DPB1*04:02,DQB1*06:03, DQB1*06:01,DRB1*09:01	0			LMX				
774	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										0			LMX				
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+													LMX			
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+													LMX			
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+													LMX			
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DQA1*01:03,DQB1*06:03, DQB1*06:01				LMX		
3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DPB1*04:02, DQB1*06:03, DQB1*06:01, DRB1*09:01>	0			LMX	
3632	86	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										0			LMX		
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DQB1*06:01,DQB1*06:03	0			LMX	
3766	90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										0			LMX		
3808	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DR3,DR1403,DR1404	0			LMX	
3966	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DPA1*01,DPA1*02,DPA1*04				LMX	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DPA1*01,DPA1*02,DPA1*03>		+		LMX
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DRB1*09:01,DQB1*06:01, DQB1*06:03				LMX	
5219	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DR3,DR5,DR6,DR1403 >	0			LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DPB1*04:02, DQB1*06:03, DQB1*06:01, DRB1*09:01	0			LMX	
6649	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										0			LMX		
8045	46	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DR103,DR4,DR1403,DR1404	0			LMX	
8048	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										0			LMX		
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										0			LMX		
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DPA1*01,DPA1*04		+		LMX	
8086	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+													LMX		
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										0			LMX		
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										0			LMX		
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										DR3,DR1403,DR1404				LMX	