

# REPORT OF THE 402<sup>nd</sup> CELL EXCHANGE

## FEBRUARY 7, 2018

B-cell Lines	545-546
Cells	1605-1608
Sera	1233-1240

### B-cell Line Exchange #273

The results for B-cell Line Exchange #273 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8.

We would like to acknowledge and thank the labs performing NGS typing

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-545.** 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\*05:09-DQB1\*03:01-DQB1\*06:04-DPA1\*01:03-DPB1\*02:01-DPB1\*04:01/A\*02:01-A\*03:01-B\*15:71-B\*40:01-C\*03:03-C\*03:04. One likely association present in this cell is DRB1\*11:01:01-DRB3\*02:02:01-DQA1\*05:09-DQB1\*03:01:01-DPB1\*04:01:01, observed in cell 28137, one of the reference cells for DQA1\*05:09. The other likely haplotype present may then be DRB1\*13:02-DRB3\*03:01-DQA1\*01:02-DQB1\*06:04-DPB1\*02:01. The DRB1\*13:02-DQB1\*06:04 association in this cell is observed commonly across all populations, with HF=0.03208, in Caucasians.

This cell is FH67, a reference cell for B\*15:71 and DQA1\*05:09. It was previously studied in the workshops as IHW9455 and in the class I DNA Extract Exchange as extracts 458 (2009), 311 (2004), and 213 (2002). In this present retyping, B\*15:71 was reported by 95% of labs reporting at high resolution, a significant improvement from a 26% detection level back in 2002. A\*02:01, A\*03:01, B\*40:01, C\*03:03, and C\*03:04 were all assigned in complete consensus, with 5 labs assigning A\*03:01:01 and 6 labs assigning A\*02:01:01, B\*40:01:02, C\*03:03:01, and C\*03:04:01.

DRB1\*11:01 and DRB1\*13:02 were each assigned in complete consensus by labs reporting at high resolution, with 8 labs assigning DRB1\*11:01:01 and 9 labs assigning DRB1\*13:02:01. DQA1\*05:09 was also reported in complete consensus, along with DQA1\*01:02.

**Ter-546.** The consensus type for this sample from a Filipino donor is DRB1\*04:03-DRB1\*15:02-DRB4\*01:03-DRB5\*01:01-DQA1\*01:02-DQA1\*03:01-DQB1\*03:02-DQB1\*05:02-DPA1\*02:02-DPB1\*01:01-DPB1\*05:01/A\*24:37-A\*34:01-B\*15:21-B\*15:35-C\*04:03-C\*07:02. This cell is the offspring of cell 1253 (same as cell 1198) and extract 242. From family studies, the class I haplotypes in this cell were determined to be A\*24:37-B\*15:35-C\*07:02 and A\*34:01-B\*15:21-C\*04:03. A\*34:01-B\*15:21-C\*04:03 is observed exclusively in Asians, with HF=0.0017.

This cell is TER1132, a reference cell for A\*24:37. It has been examined numerous times in the exchange as cells 1256 (2005), 1197 (2004), 1145 (2003), and 1132 (2002), and as extracts 552 (2012) and 243 (2003). In this present retyping, A\*24:37 was reported in complete consensus by labs reporting at high resolution, an improvement from a detection level of only 27% back in 2003. A\*34:01, B\*15:21, B\*15:35, C\*04:03, and C\*07:02 were also each assigned in complete consensus, with 5 labs assigning C\*04:03:01 and 6 labs assigning A\*34:01:01 and C\*07:02:01.

DRB1\*04:03 and DRB1\*15:02 were each reported in complete consensus as the DRB1 types, with 9 labs assigning DRB1\*04:03:01 and 6 labs assigning DRB1\*15:02:01. The DQ types were also reported in complete consensus as DQA1\*01:02, DQA1\*03:01, DQB1\*03:02, and DQB1\*05:02. DPB1\*01:01 (100%) and DPB1\*05:01 (100%) were the reported DPB1 types, with 7 labs assigning DPB1\*01:01:01 and DPB1\*05:01:01.

**Table 1: Summary of the 273rd B-cell Line Exchange**

**Ter-545**

DNA Typing - class II		<u>32 labs High; 33 labs low-DRB1</u>		<u>16 labs High; 23 labs Low-DRB3/4/5</u>		<u>19 labs High; 28 labs Low-DQA1</u>		<u>31 High Labs; 31 labs Low-DQB1</u>		<u>14 High Labs; 13 labs Low-DPA1</u>		<u>26 High Labs; 17 labs Low-DPB1</u>		
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)	
DNA Typing - class II	DRB1*11:01:01	25(8)		DRB3*02:02:01:02	12(2)	DQA1*01:02:01:04	5 (1)	DQB1*03:01:01:03	13(4)	DPA1*01:03:01:01	29(4)	DPB1*02:01:02	23(6)	
	DRB1*11:01:01G	3 (1)		DRB3*02:02:01	12(2)	DQA1*01:02:01	26(5)	DQB1*03:01:01	10(3)	DPA1*01:03:01	7 (1)	DPB1*02:01:02G	4 (1)	
	DRB1*11:01	72(23)		DRB3*02:02	75(12)	DQA1*01:02	68(13)	DQB1*03:01:01G	3 (1)	DPA1*01:03	64(9)	DPB1*02:01	73(19)	
	DRB1*11	100(33)		DRB3*02	100(23)	DQA1*01	100(28)	DQB1*03:01	74(23)	DPA1*01	100(13)	DPB1*02(DP201)	59(10)	
								DQB1*03(DQ7)	3 (1)			DPB1*02	41(7)	
								DQB1*03	97(30)					
DNA Typing - class I	<u>20 labs High; 24 labs low- A</u>		<u>22 labs High; 24 labs low- B</u>		<u>21 labs High; 24 labs low- C</u>		<u>20 labs High; 24 labs low- A</u>		<u>22 labs High; 24 labs low- B</u>		<u>21 labs High; 24 labs low- C</u>		<u>20 labs High; 24 labs low- A</u>	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	A*02:01:01:01	15(3)	B*15:71	95(21)	C*03:03:01:01	14(3)	A*03:01:01:01	20(4)	B*40:01:02	27(6)	C*03:04:01:01	19(4)	A*03:01:01	5 (1)
	A*02:01:01	15(3)	B*15:01	5 (1)	C*03:03:01	14(3)	A*03:01:01G	5 (1)	B*40:01P	5 (1)	C*03:04:01	10(2)	A*03:01:01G	5 (1)
	A*02:01P	5 (1)	B*15	4 (1)	C*03:03P	5 (1)	A*03:01	70(14)	B*40:01	68(15)	C*03:04	71(15)	A*03:01	70(14)
	A*02:01	65(13)	B*15	96(23)	C*03:03	67(14)	A*03	100(24)	B*40(B60)	4 (1)	C*03(Cw9)	4 (1)	A*03	100(24)
	A*02	100(24)			C*03(Cw10)	4 (1)			B*40	96(23)	C*03	96(23)		
					C*03	96(23)								



**Table 3a: Individual laboratory results for B-cell #545-Class II**

		Low resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharon			3*02	3*03	*01	*05							SSP SSO SBT	
5462	Arnold , Paula	*11	*13	3*02	3*03	*01	*05	*03	*06	*01		NT	NT	SSO RT-PCR	
774	Cecka , J. Michael	*11	*13	3*02	3*03	*01	*05	*03	*06	*01		*02(DP201)	*04(DP401)	SSP SSO	
9916	Charlton , Ronald K.	*11	*13	3*PRESENT				*03	*06					SSP	
3224	Chen , Dong-Feng	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02(DP201)	*04(DP401)	SSO	
3632	Colombe , Beth W.	*11	*13	3*02	3*03	*01	*05	*03	*06	*01		*02	*04	SSP SSO	
5130	Costeas , Paul A.	*11	*13	3*02	3*03	*01	*05	*03	*06			*02	*04	SSP SSO NGS	
779	Daniel , Claude	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02(DP201)	*04(DP401)	SSP SSO	
5219	Daniel , Dolly	*11	*13			*01	*05	*03	*06					SSO	
87	Di Paola , Nicholas F	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02(DP201)	*04(DP401)	RT-PCR	
747	Ferrari-Lacraz , Sylv	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02	*04	SSP SSO NGS	
4079	Fort , Marylise	*11	*13			*01	*05	*03	*06			*02(DP201)	*04(DP401)	SSP	
792	Gandhi , Manish	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02	*04	SSO SBT	
5214	Gebel , Howard	*11	*13	3*02	3*03	*01	*05	*03(DQ7)	*06	*01		*02(DP201)	*04(DP401)	RT-PCR	
8043	Gideoni , Osnat	*11	*13			*01	*05	*03	*06					SSP SSO	
810	Hamdi , Nuha	*11	*13			*01	*05	*03	*06					SSO	
8087	Hernandez Rosales	*11	*13			*01	*05	*03	*06					SSO	
771	Israel , Shoshana	*11	*13			*01	*05	*03	*06					SSP SSO	
725	Lardy , N.M.	*11	*13	3*PRESENT		*01	*05	*03	*06					SSO	
278	Lee , Jar-How	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02	*04		
6649	Lim , Young Ae	*11	*13	3*PRESENT	3*PRESENT									SSP	
2400	Liu , Chang	*11	*13	3*02	3*03							*02	*04		
731	Loewenthal , Ron	*11	*13			*01	*05	*03	*06					SSP SSO SBT	
206	McAlack , Robert	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02	*04		
735	Moussa , Omar	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02(DP201)	*04(DP401)	SSP SSO SBT	
8001	Rao , Prakash	*11	*13			*01	*05	*03	*06					SSP SSO	
3519	Renac , Virginie	*11	*13					*03	*06			*02(DP201)	*04(DP401)	SSP NGS	
793	Rubocki , Ronald	*11	*13	3*02	3*03	*01	*05	*03	*06			*02(DP201)	*04(DP401)		
4251	Schiller , Jennifer	*11	*13	3*02	3*03	*01	*05	*03	*06	*01	*01	*02(DP201)	*04(DP401)	SSO NGS	
8068	Shanmugam , Hema	*11	*13	3*02	3*03			*03	*06					SSO	
8029	Tarigopula , Anil	*11	*13			*01	*05	*03	*06					SSO	
5451	Tilanus , Marcel G.J.	*11	*13	3*02	3*03	*01	*05	*03	*06					SSP SSO SBT	
5642	Varnavidou-Nicolaid	*11	*13	3*PRESENT				*03	*06						
2847	Wakita , Atsushi	*11	*13											SSO	

**Table 3b: Individual laboratory results for B-cell #545-Class II**

High resolution														METHOD	Other Alleles
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
5488	Adams , Sharon	*11:01:01	*13:02:01					*03:01:01	*06:04:01			*02:01	*04:01:01	SSP SSO SBT	DQB1*03:22 DQB1*03:01:02 DQB1*06:39 DQB1*06:04:08
5133	Askar , Medhat	*11:01:01	*13:02:01	3*02:02:01:02	3*03:01:01	*01:02:01	*05:09	*03:01:01:03	*06:04:01	*01:03:01:01	*01:03:01:04	*02:01:02	*04:01:01	NGS	
4492	Caillat-Zucman ,	*11:01:01	*13:02:01	3*02:02	3*03:01	*01:02:01	*05:09	*03:01:01	*06:04:01	*01:03	*01:03	*02:01:02	*04:01:01	SSP SSO NGS	DPA1*01:13
774	Cecka , J. Michael	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:09	*03:01	*06:04	*01:03		*02:01	*04:01	SSP SSO	DQB1*03:73 DRB3*02:29N DQB1*03:92 DQB1*03:93 DRB3*02:28 DPA1*01:13 DRB1*11:97 DRB1*11:100 DRB1*11:117 DRB1*11:157 DRB1*11:158
8070	Chang , Uckjin	*11:01	*13:02											SBT	
8021	Clark , Brendan	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:09	*03:01	*06:04	*01:03		*02:01	*04:01	SSO SBT	
3632	Colombe , Beth V	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:09	*03:01	*06:04	*01:03		*02:01	*04:01	SSP SSO	
5130	Costeas , Paul A.	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:09	*03:01	*06:04			*02:01	*04:01	SSP SSO NGS	
779	Daniel , Claude					*01:02	*05:09	*03:01	*06:04	*01:03	*01:03	*02:01	*04:01	SSP SSO	
8086	Du , Keming	*11:01	*13:02			*01:02	*05:09	*03:01	*06:04	*01:03	*01:03	*02:01	*04:01	SSP SSO SBT	
3135	Enczmann , J	*11:01	*13:02	3*02:02	3*03:01			*03:01	*06:04			*02:01	*04:01		
747	Ferrari-Lacruz , S	*11:01:01	*13:02:01	3*02:02:01:02	3*03:01:01	*01:02:01:04	*05:09	*03:01:01:03	*06:04:01	*01:03:01:01	*01:03:01:04	*02:01:02	*04:01:01:01	SSP SSO NGS	
762	Fischer , Gottfried	*11:01:01	*13:02:01	3*02:02:01	3*03:01:01	*01:02:01	*05:09	*03:01:01:03	*06:04:01	*01:03:01:01	*01:03:01:04	*02:01:02	*04:01:01	NGS	
4079	Fort , Marylise	*11:01	*13:02			NT	NT	*03:01	*06:04			*02:01	*04:01	SSP	DPB1*428:01 DPB1*434:01 DPB1*453:01 DPB1*454:01 DPB1*433:01 DPB1*444:01 DPB1*452:01 DPB1*457:01 DPB1*467:01 DPB1*469:01 DPB1*418:01 DPB1*426:01
792	Gandhi , Manish	*11:01	*13:02					*03:01	*06:04			*02:01	*04:01	SSO SBT	
8043	Gideoni , Osnat	*11:01	*13:02			*01:02	*05:09	*03:01	*06:04					SSP SSO	
2344	Hurley & Hartzma	*11:01:01	*13:02:01			*01:02:01	*05:09	*03:01:01:03	*06:04:01	*01:03:01:01	*01:03:01:04	*02:01:02	*04:01:01:01	NGS	DQA1*01:02:01:04 DPB1*04:01:01:02
771	Israel , Shoshana	*11:01	*13:02					*03:01	*06:04					SSP SSO	
4337	Kim , Tai-Gyu	*11:01	*13:02					*03:01	*06:04			*02:01	*04:01	SSP SBT	
278	Lee , Jar-How	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:09	*03:01	*06:04	*01:03	*01:03	*02:01	*04:01		
2400	Liu , Chang	*11:01	*13:02			*01:02	*05:09	*03:01	*06:04			*02:01:02G	*04:01:01G		
731	Loewenthal , Rol	*11:01:01G	*13:02:01					*03:01:01G	*06:04:01G					SSP SSO SBT	

**Table 3b: Individual laboratory results for B-cell #545-Class II**

		High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
735	Moussa , Omar	*11:01	*13:02					*03:01	*06:04	*01:03	*01:03	*02:01	*04:01	SSP SSO SBT	DPA1*01:13
3966	Permpikul , Vejba	*11:01	*13:02	3*02:02	3*03:01			*03:01	*06:04					SSP SSO	
8001	Rao , Prakash	*11:01	*13:02	3*02:02	3*03:01			*03:01	*06:04			*02:01	*04:01	SSP SSO	
3753	Reed , Elaine F.	*11:01:01	*13:02:01	3*02:02:01	3*03:01:01	*01:02:01	*05:09	*03:01:01	*06:04:01	*01:03:01	*01:03:01	*02:01:02	*04:01:01	NGS	
3519	Renac , Virginie	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:09	*03:01	*06:04			*02:01	*04:01	SSP NGS	
793	Rubocki , Ronald					*01:02	*05:09					*02:01	*04:01		
4251	Schiller , Jennifer	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:09	*03:01	*06:04	*01:03	*01:03	*02:01	*04:01	SSO NGS	
8042	Supino , Lia	*11:01	*13:02					*03:01	*06:04						
230	Thoni , Deborah	*11:01	*13:02					*03:01	*06:04			*02:01	*04:01	SSO SBT	
5451	Tilanus , Marcel	*11:01:01	*13:02:01											SSP SSO SBT	
5642	Varnavidou-Nicol	*11:01	*13:02					*03:01	*06:04						
3511	Zeevi , Adriana	*11:01	*13:02	3*02:02	3*03:01	*01:02	*05:09	*03:01	*06:04			*02:01	*04:01	SSP SSO	

**Table 4: Individual laboratory results for B-cell #545-Class II**

		Serology									
CTR	DIRNAME	DRB1		DRB3/4/5		DQB1		Others			
910	Hahn,Amy B.	DR11	DR13	DR52				DQ7	DQ1	DR4	DR53

**Table 5: Individual laboratory results for B-cell #545-Class I**

Center	Investigator	Low resolution						High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5488	Adams , Sharon							*02:01:01	*03:01	*15:71	*40:01:02	*03:03:01	*03:04:01	SSP SSO SBT	B*15:225 B*40:74 C*03:20N C*03:227 A*02:01:52 A*02:01:36
5462	Arnold , Paula	*02	*03	*15	*40	*03	*03							SSO RT-PCR	
5133	Askar , Medhat							*02:01:01:01	*03:01:01:01	*15:71	*40:01:02	*03:03:01:01	*03:04:01:01	NGS	
4492	Caillat-Zucman ,							*02:01:01	*03:01:01:01	*15:71	*40:01:02	*03:03:01	*03:04:01:01	SSP SSO NGS	
774	Cecka , J. Michael	*02	*03	*15	*40	*03	*03							SSP SSO	
9916	Charlton , Ronald	*02	*03	*15	*40	*03	*03							SSP	
3224	Chen , Dong-Fen	*02	*03	*15	*40	*03								SSO	
8021	Clark , Brendan							*02:01	*03:01	*15:71	*40:01	*03:03	*03:04	SSO SBT	
5130	Costeas , Paul A.	*02	*03	*15	*40	*03	*03	*02:01	*03:01	*15:71	*40:01	*03:03	*03:04	SSP SSO NGS	A*02:01L
779	Daniel , Claude	*02	*03	*15	*40	*03	*03			*15:01	*40:01	*03:03	*03:04	SSP SSO	
5219	Daniel , Dolly	*02	*03	*15	*40	*03	*03							SSO	
87	Di Paola , Nicholas	*02	*03	*15	*40	*03	*03							RT-PCR	
8086	Du , Keming							*02:01	*03:01	*15:71	*40:01	*03:03	*03:04	SSP SSO SBT	
3135	Enczmann , J							*02:01	*03:01	*15:71	*40:01	*03:03	*03:04		A*02:01L
747	Ferrari-Lacraz , S	*02	*03	*15	*40	*03	*03	*02:01:01:01	*03:01:01:01	*15:71	*40:01:02	*03:03:01:01	*03:04:01:01	SSP SSO NGS	
792	Gandhi , Manish	*02	*03	*15	*40	*03	*03	*02:01	*03:01	*15:71	*40:01	*03:03	*03:04	SSO SBT	A*02:01:01:02L A*03:01:01:02N
5214	Gebel , Howard	*02	*03	*15	*40	*03	*03							RT-PCR	
810	Hamdi , Nuha	*02	*03	(B62)	(B60)	(Cw9)	(Cw10)							SSO	
8087	Hernandez Rosa	*02	*03	*15	*40	*03	*03							SSO	
2344	Hurley & Hartzma							*02:01:01:01	*03:01:01:01	*15:71	*40:01:02	*03:03:01:01	*03:04:01:01	NGS	
4337	Kim , Tai-Gyu							*02:01	*03:01	*15:71	*40:01	*03:03	*03:04	SSP SBT	
278	Lee , Jar-How	*02	*03	*15	*40	*03	*03	*02:01	*03:01	*15:71	*40:01	*03:03	*03:04		
2400	Liu , Chang	*02	*03	*15	*40	*03	*03	*02:01	*03:01:01G	*15:71	*40:01	*03:03	*03:04		
206	McAlack , Robert	*02	*03	*15	*40	*03	*03								
735	Moussa , Omar	*02	*03	*15	*40	*03	*03	*02:01P	*03:01	*15:71	*40:01P	*03:03P	*03:04	SSP SSO SBT	
3966	Permpikul , Vejba	*02	*03	*15	*40	*03	*03			*15:71	*40:01			SSP SSO	
3753	Reed , Elaine F.							*02:01:01	*03:01:01	*15:71	*40:01:02	*03:03:01	*03:04:01	NGS	
3519	Renac , Virginie	*02	*03	*15	*40	*03	*03	*02:01	*03:01	*15:71	*40:01	*03:03	*03:04	SSP NGS	
793	Rubocki , Ronald	*02	*03	*15	*40	*03									
4251	Schiller , Jennifer	*02	*03	*15	*40	*03	*03	*02:01	*03:01	*15:71	*40:01	*03:03	*03:04	SSO NGS	
8068	Shanmugam , He	*02	*03	*15	*40	*03	*03							SSO	
8042	Supino , Lia							*02:01	*03:01	*15:71	*40:01	*03:03	*03:04		C*03:147
8029	Tarigopula , Anil	*02	*03	*15	*40	*03	*03							SSO	
230	Thoni , Deborah							*02:01	*03:01	*15:71	*40:01	*03:03	*03:04	SSO SBT	
2847	Wakita , Atsushi	*02	*03	*15	*40	*03	*03							SSO	
3511	Zeevi , Adriana							*02:01	*03:01	*15:71	*40:01	*03:03	*03:04	SSP SSO	

**Table 6a: Individual laboratory results for B-cell #546-Class II**

Center	Investigator	Low resolution												METHOD	Other Alleles	
		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1				
5488	Adams , Sharon		*15	4*01	5*01										SSP SSO SBT	
5462	Arnold , Paula	*04	*15	4*01	5*01	*01	*03	*03	*05	*02		NT	NT		SSO RT-PCR	
774	Cecka , J. Michael	*04	*15	4*01	5*01	*01	*03	*03	*05	*02		*01	*05		SSP SSO	
9916	Charlton , Ronald	*04	*15	4*PRESENT	5*PRESENT			*03	*05						SSP	
3224	Chen , Dong-Fen	*04	*15	4*01	5*01	*01	*03	*03	*05	*02	*02	*01	*05		SSO	
3632	Colombe , Beth V	*04	*15	4*01	5*01	*01	*03	*03	*05	*02		*01	*05		SSP SSO	
5130	Costeas , Paul A.	*04	*15	4*01	5*01	*01	*03	*03	*05			*01	*05		SSP SSO NGS	
779	Daniel , Claude	*04	*15	4*01	5*01	*01	*03	*03	*05	*02	*02	*01	*05		SSP SSO	
5219	Daniel , Dolly	*04	*15			*01	*03	*03	*05						SSO	
87	Di Paola , Nichola	*04	*15	4*01	5*01	*01	*03	*03	*05	*02	*02	*01	*05		RT-PCR	
747	Ferrari-Lacraz , S	*04	*15	4*01	5*01	*01	*03	*03	*05	*02	*02	*01	*05		SSP SSO NGS	
4079	Fort , Marylise	*04	*15			*01	*03	*03	*05			*01	*05		SSP	
792	Gandhi , Manish	*04	*15	4*01	5*01	*01	*03	*03	*05	*02	*02	*01	*05		SSO SBT	
5214	Gebel , Howard	*04	*15	4*01	5*01	*01	*03	*03 (DQ8)	*05	*02		*01	*05		RT-PCR	
8043	Gideoni , Osnat	*04	*15			*01	*03	*03	*05						SSP SSO	
810	Hamdi , Nuha	*04	*15			*01	*03	*03	*05						SSO	
8087	Hernandez Rosal	*04	*15			*01	*03	*03	*05						SSO	
771	Israel , Shoshana	*04	*15			*01	*03	*03	*05						SSP SSO	
725	Lardy , N.M.	*04	*15	4*PRESENT	5*PRESENT	*01	*03	*03	*05						SSO	
278	Lee , Jar-How	*04	*15	4*01	5*01	*01	*03	*03	*05	*02	*02	*01	*05			
6649	Lim , Young Ae	*04	*15	4*PRESENT	5*PRESENT										SSP	
2400	Liu , Chang	*04	*15	4*01	5*01	*01	*03	*03	*05			*01	*05			
731	Loewenthal , Ro	*04	*15			*01	*03	*03	*05						SSP SSO SBT	
206	McAlack , Robert	*04	*15	4*01	5*01	*01	*03	*03	*05	*02		*01	*05			
735	Moussa , Omar	*04	*15	4*01	5*01	*01	*03	*03	*05	*02	*02	*01	*05		SSP SSO SBT	
8001	Rao , Prakash	*04	*15			*01	*03	*03	*05						SSP SSO	
3519	Renac , Virginie	*04	*15					*03	*05			*01	*05		SSP NGS	
793	Rubocki , Ronald	*04	*15	4*PRESENT	5*PRESENT	*01	*03	*03	*05			*01	*05			
4251	Schiller , Jennifer	*04	*15	4*01	5*01	*01	*03	*03	*05	*02	*02	*01	*05		SSO NGS	
8068	Shanmugam , He	*04	*15	4*01	5*01			*03	*05						SSO	
8029	Tarigopula , Anil	*04	*15			*01	*03	*03	*05						SSO	
5451	Tilanus , Marcel C	*04	*15	4*01	5*01	*01	*03	*03	*05						SSP SSO SBT	
5642	Varnavidou-Nicol	*04	*15	4*PRESENT	5*PRESENT			*03	*05							
2847	Wakita , Atsushi	*04	*15												SSO	



**Table 6b: Individual laboratory results for B-cell #546-Class II**

		High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharon	*04:03:01				*01:02	*03:01	*03:02	*05:02:01			*01:01:01	*05:01:01	SSP SSO SBT	DQB1*05:02:04 DQB1*05:02:02
5133	Askar , Medhat	*04:03:01	*15:02:01	4*01:03:01	5*01:01:01	*01:02:01	*03:01:01	*03:02:01	*05:02:01	*02:02:02		*01:01:01	*05:01:01	NGS	
4492	Caillat-Zucman ,	*04:03:01	*15:02:01	4*01:03	5*01:01	*01:02:01	*03:01:01	*03:02:01	*05:02:01	*02:02	*02:02	*01:01:01	*05:01:01	SSP SSO NGS	DPA1*02:06 DPA1*02:07 DPA1*02:06 DPA1*02:07
774	Cecka , J. Micha	*04:03	*15:02	4*01:03	5*01:01	*01:02	*03:01	*03:02	*05:02	*02:02		*01:01	*05:01	SSP SSO	DRB4*01:09 DRB4*01:10 DRB5*01:16 DRB5*01:17 DRB1*04:181
8070	Chang , Uckjin	*04:03	*15:02											SBT	
8021	Clark , Brendan	*04:03	*15:02	4*01:03	5*01:01	*01:02	*03:01	*03:02	*05:02	*02:02		*01:01	*05:01	SSO SBT	
3632	Colombe , Beth V	*04:03	*15:02	4*01:03	5*01:01	*01:02	*03:01	*03:02	*05:02	*02:02		*01:01	*05:01	SSP SSO	
5130	Costeas , Paul A	*04:03	*15:02	4*01:03	5*01:01	*01:02	*03:01	*03:02	*05:02			*01:01	*05:01	SSP SSO NGS	
779	Daniel , Claude					*01:02	*03:01	*03:02	*05:02	*02:02	*02:02	*01:01	*05:01	SSP SSO	
8086	Du , Keming	*04:03	*15:02			*01:02	*03:01	*03:02	*05:02	*02:02	*02:02	*01:01	*05:01	SSP SSO SBT	
3135	Enczmann , J	*04:03	*15:02	4*01:03	5*01:01			*03:02	*05:02			*01:01	*05:01		
747	Ferrari-Lacruz , S	*04:03:01	*15:02:01:02	4*01:03:01	5*01:01:01	*01:02:01:01	*03:01:01	*03:02:01	*05:02:01	*02:02:02	*02:02:02	*01:01:01	*05:01:01	SSP SSO NGS	
762	Fischer , Gottfrie	*04:03:01	*15:02:01	4*01:03:01	5*01:01:01	*01:02:01	*03:01:01	*03:02:01	*05:02:01	*02:02:02		*01:01:01	*05:01:01	NGS	
4079	Fort , Marylise	*04:03	*15:02			NT	NT	*03:02	*05:02			*01:01	*05:01	SSP	DPB1*436:01
792	Gandhi , Manish	*04:03	*15:02					*03:02	*05:02			*01:01	*05:01	SSO SBT	
8043	Gideoni , Osnat	*04:03	*15:02			*01:02	*03:01	*03:02	*05:02					SSP SSO	
2344	Hurley & Hartzma	*04:03:01	*15:02:01:01			*01:02:01	*03:01:01	*03:02:01	*05:02:01	*02:02:02	*02:02:02	*01:01:01	*05:01:01	NGS	DQA1*01:02:01:01 DQA1*01:02:01:03 DRB1*15:02:01:02
771	Israel , Shoshana	*04:03	*15:02					*03:02	*05:02					SSP SSO	
4337	Kim , Tai-Gyu	*04:03	*15:02					*03:02	*05:02			*01:01	*05:01	SSP SBT	
278	Lee , Jar-How	*04:03	*15:02	4*01:03	5*01:01	*01:02	*03:01	*03:02	*05:02	*02:02	*02:02	*01:01	*05:01		
2400	Liu , Chang	*04:03	*15:02			*01:02	*03:01	*03:02	*05:02			*01:01:01G	*05:01:01G		
731	Loewenthal , Ro	*04:03:01	*15:02:01G					*03:02:01	*05:02:01					SSP SSO SBT	
735	Moussa , Omar	*04:03	*15:02:01G					*03:02	*05:02	*02:02P	*02:02P	*01:01	*05:01	SSP SSO SBT	
3966	Permpikul , Vejba	*04:03	*15:02	4*01:03	5*01:01			*03:02	*05:02					SSP SSO	
8001	Rao , Prakash	*04:03	*15:02	4*01:03	5*01:01			*03:02	*05:02			*01:01	*05:01	SSP SSO	
3753	Reed , Elaine F.	*04:03:01	*15:02:01G	4*01:03:01	5*01:01:01	*01:02:01	*03:01:01	*03:02:01	*05:02:01	*02:02:02	*02:02:02	*01:01:01	*05:01:01	NGS	
3519	Renac , Virginie	*04:03	*15:02	4*01:03	5*01:01	*01:02	*03:01	*03:02	*05:02			*01:01	*05:01	SSP NGS	
793	Rubocki , Ronald					*01:02	*03:01					*01:01	*05:01		
4251	Schiller , Jennife	*04:03	*15:02	4*01:03	5*01:01	*01:02	*03:01	*03:02	*05:02	*02:02	*02:02	*01:01	*05:01	SSO NGS	
8042	Supino , Lia	*04:03	*15:02					*03:02	*05:02						
230	Thoni , Deborah	*04:03	*15:02					*03:02	*05:02			*01:01	*05:01	SSO SBT	
5451	Tilanus , Marcel	*04:03:01	*15:02:01											SSP SSO SBT	
5642	Varnavidou-Nico	*04:03	*15:02					*03:02	*05:02						
3511	Zeevi , Adriana	*04:03	*15:02	4*01:03	5*01:01	*01:02	*03:01	*03:02	*05:02			*01:01	*05:01	SSP SSO	

**Table 7: Individual laboratory results for B-cell #546-Class II**

Serology											
CTR	DIRNAME	DRB1		DRB3/4/5				DQB1		Others	
910	Hahn,Amy B.	DR4	DR15	DR53	DR51			DQ3	DQ1	DR10	

**Table 8: Individual laboratory results for B-cell #546-Class I**

Center	Investigator	Low resolution						High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5488	Adams , Sharon					*04		*24:37	*34:01:01	*15:21	*15:35		*07:02:01	SSP SSO SBT	C*07:172:01
5462	Arnold , Paula	*24	*34	*15	*15	*04	*07							SSO RT-PCR	
5133	Askar , Medhat							*24:37	*34:01:01	*15:21	*15:35	*04:03:01	*07:02:01:01	NGS	
4492	Caillat-Zucman ,							*24:37	*34:01:01	*15:21	*15:35	*04:03:01	*07:02:01	SSP SSO NGS	
774	Cecka , J. Micha	*24	*34	*15	*15	*04	*07			*15:21	*15:35	*04:03		SSP SSO	C*04:171
9916	Charlton , Ronald	*24	*34	*15	*15	*04	*07							SSP	
3224	Chen , Dong-Fer	*24	*34	*15	*15	*04	*07							SSO	
8021	Clark , Brendan							*24:37	*34:01	*15:21	*15:35	*04:03	*07:02	SSO SBT	
5130	Costeas , Paul A	*24	*34	*15	*15	*04	*07	*24:37	*34:01	*15:21	*15:35	*04:03	*07:02	SSP SSO NGS	
779	Daniel , Claude	*24	*34	*15	*15	*04	*07			*15:21	*15:35			SSP SSO	
5219	Daniel , Dolly	*24	*34	*15	*15	*04	*07							SSO	
87	Di Paola , Nichol	*24	*34	*15	*15	*04	*07							RT-PCR	
8086	Du , Keming							*24:37	*34:01	*15:21	*15:35	*04:03	*07:02	SSP SSO SBT	
3135	Enczmann , J							*24:37	*34:01	*15:21	*15:35	*04:03	*07:02		
747	Ferrari-Lacraz , S	*24	*34	*15	*15	*04	*07	*24:37	*34:01:01	*15:21	*15:35	*04:03:01	*07:02:01:01	SSP SSO NGS	
792	Gandhi , Manish	*24	*34	*15	*15	*04	*07	*24:37	*34:01	*15:21	*15:35	*04:03	*07:02	SSO SBT	
5214	Gebel , Howard	*24	*34	*15	*15	*04	*07							RT-PCR	
810	Hamdi , Nuha	*24	*34	(B75)	(B62)	*04	*07							SSO	
8087	Hernandez Rosa	*24	*34	*15	*15	*04	*07							SSO	
2344	Hurley & Hartzman ,							*24:37	*34:01:01	*15:21	*15:35	*04:03:01	*07:02:01:01	NGS	
4337	Kim , Tai-Gyu							*24:37	*34:01	*15:21	*15:35	*04:03	*07:02	SSP SBT	
278	Lee , Jar-How	*24	*34	*15	*15	*04	*07	*24:37	*34:01	*15:21	*15:35	*04:03	*07:02		
2400	Liu , Chang	*24	*34	*15	*15	*04	*07	*24:37	*34:01	*15:21	*15:35	*04:03	*07:02		
206	McAlack , Rober	*24	*34	*15	*15	*04	*07								
735	Moussa , Omar	*24	*34	*15	*15	*04	*07	*24:37	*34:01	*15:21	*15:35	*04:03	*07:02P	SSP SSO SBT	
3966	Permpikul , Vej	*24	*34	*15	*15	*04	*07			*15:21	*15:35			SSP SSO	
3753	Reed , Elaine F.							*24:37	*34:01:01	*15:21	*15:35	*04:03:01	*07:02:01	NGS	
3519	Renac , Virginie	*24	*34	*15		*04	*07	*24:37	*34:01	*15:21	*15:35	*04:03	*07:02	SSP NGS	
793	Rubocki , Ronald	*24	*34	*15	*15	*04	*07								A*66
4251	Schiller , Jennife	*24	*34	*15	*15	*04	*07	*24:37	*34:01	*15:21	*15:35	*04:03	*07:02	SSO NGS	
8068	Shanmugam , H	*24	*34	*15	*15	*04	*07							SSO	
8042	Supino , Lia							*24:37	*34:01	*15:21	*15:35	*04:03	*07:02		
8029	Tarigopula , Anil	*24	*34	*15	*15	*04	*07							SSO	
230	Thoni , Deborah							*24:37	*34:01	*15:21	*15:35	*04:03	*07:02	SSO SBT	
2847	Wakita , Atsushi	*24	*34	*15	*15	*04	*07							SSO	
3511	Zeevi , Adriana							*24:37	*34:01	*15:21	*15:35	*04:03	*07:02	SSP SSO	

## CELL EXCHANGE #402

The results for Cell Exchange #402 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 serology 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 1605.** The reported consensus type for this sample from a donor of mixed Chinese and Hispanic heritage is A\*02:01(A2)-A\*02:06(A2)-B\*40:06(B61)-B\*51:01(B51)-C\*02:02(Cw2)-C\*08:01(Cw8). One likely class I association present in this cell is A\*02:01-B\*51:01-C\*02:02, with HF=0.00292, in Hispanics. The other likely association present is A\*02:06-B\*40:06-C\*08:01, observed exclusively in Asians, with HF=0.00324. A\*02:01, A\*02:06, B\*40:06, B\*51:01, C\*02:02, and C\*08:01 were each assigned in complete consensus, by labs reporting at high resolutions. By serology, A2 (100%) was reported as the sole A-locus type, while B61 (67%) and B51 (100%) were the reported B-locus types.

**Cell 1606.** The reported consensus type for this sample from an African American donor is A\*11:01(A11), A\*29:02(A29), B\*13:01(B13), B\*44:03(B44), C\*04:06, and C\*16:01. One likely class I association present in this cell is A\*29:02-B\*44:03-C\*16:01, with respective HF=0.00796, in African Americans. The other likely association present is A\*11:01-B\*13:01-C\*04:06, which interestingly, is observed exclusively in Asians, with HF=0.00075. The B\*13:01-C\*04:06 association in this cell was observed in 2 previous exchange cells, cell 1606 and cell 1319 (same as cell 756, 815, 887, 1005, and 1261), both from Filipino donors. A\*11:01, A\*29:02, B\*13:01, B\*44:03, C\*04:06, and C\*16:01 were each assigned by 100% of labs reporting at high resolution. A11 was assigned by 93% of serology labs, with 1 lab reporting A11.1. The second A-locus type was reported as A29 (100%). B13 (100%) and B44 (100%) were the B-locus types. Cw4 was reported by 4 labs.

**Cell 1607.** The reported consensus type for this sample from a donor of Vietnamese descent is A\*11:01(A11)-A\*24:02(A24)-B\*15:02-(B62)-B\*15:05(B75)-C\*03:03(Cw9)-C\*08:01(Cw8). Likely associations present in this cell are A\*24:02-B\*15:02-C\*08:01 and A\*11:01-B\*15:05-C\*03:03, with respective HF=0.00210 and HF=0.00011, in Asian populations. The A\*11:01-B\*15:05-C\*03:03 association in this cell was observed in cell 917, from an Asian Indian donor. Two subtypes of B\*15 were present in this cell, B\*15:02 (100%) and B\*15:05 (100%). By serology, B75 (75%) and B62 (57%), were reported respectively as the B15 splits. One lab misassigned by B70 instead of B62 and another assigned B35 instead of B75. A\*11:01, A\*24:02, C\*03:03, and C\*08:01 were all reported in complete consensus, with serology assigning A11 (100%), A24 (100%), Cw3 (36%), and Cw8 (29%).

**Cell 1608.** The reported consensus type for this sample from an African American donor is A\*68:01(A68)-A\*68:02(A68)-B\*53:01(B53)-B\*58:02(B58)-C\*04:01(Cw4)-C\*06:02(Cw6). Likely associations present in this cell are A\*68:01-B\*53:01-C\*04:01 and A\*68:02-B\*58:02-C\*06:02, with respective HF=0.00049 and 0.00115, in African Americans. Two subtypes of A\*68 were detected in this cell, A\*68:01 (100%) and A\*68:02 (100%). A28 (100%) was assigned by serology, with 71% assigning A68 as the A28 split. B\*53:01, B\*58:02, C\*04:01, and C\*06:02 were each reported in complete consensus by labs reporting at high resolution. B53 (100%), B58 (86%), Cw4 (28%), and Cw6 (21%) were reported by serology.

**Table 9. Summary of the 402<sup>nd</sup> Cell Exchange (Cell #1605-1608)**

**DNA typing**

<b>Cell 1605</b>	
21 low/13 high labs - A	%(n)
A*02:01:01:01	23(3)
A*02:01:01	15(2)
A*02:01:01G	8 (1)
A*02:01	54(7)
A*02	100(21)
13 high labs - A	%(n)
A*02:06:01:01	31(4)
A*02:06:01	7 (1)
A*02:06	62(8)
22 low/15 high labs - B	%(n)
B*40:06:01:01	13(2)
B*40:06:01	13(2)
B*40:06	73(11)
B*40(B61)	9 (2)
B*40	91(20)
22 low/14 high labs - B	%(n)
B*51:01:01	36(5)
B*51:01P	7 (1)
B*51:01	57(8)
B*51	100(22)
21 low/14 high Labs - C	%(n)
C*02:02:02:01	29(4)
C*02:02:02	7 (1)
C*02:02	64(9)
C*02	100(21)
21 low/14 high Labs - C	%(n)
C*08:01:01	36(5)
C*08:01:01G	7 (1)
C*08:01	57(8)
C*08	100(21)

<b>Cell 1606</b>	
21 low/14 high labs - A	%(n)
A*11:01:01:01	29(4)
A*11:01:01	7 (1)
A*11:01:01G	7 (1)
A*11:01	57(8)
A*11	100(21)
21 low/14 high labs - A	%(n)
A*29:02:01:01	29(4)
A*29:02:01	7 (1)
A*29:02:01G	7 (1)
A*29:02	57(8)
A*29	100(21)
21 low/14 high labs - B	%(n)
B*13:01:01	36(5)
B*13:01	64(9)
B*13	100(21)
19 low/14 high labs - B	%(n)
B*44:03:01:01	7 (1)
B*44:03:01	29(4)
B*44:03	64(9)
B*44	100(21)
19 low/17 high Labs - C	%(n)
C*04:06	100(17)
C*04	100(19)
20 low/14 high Labs - C	%(n)
C*16:01:01:01	21(3)
C*16:01:01	14(2)
C*16:01:01G	7 (1)
C*16:01	57(8)
C*16	100(20)

<b>Cell 1607</b>	
20 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(20)
20 low/12 high labs - A	%(n)
A*24:02:01:01	25(3)
A*24:02:01	8 (1)
A*24:02:01P	8 (1)
A*24:02	58(7)
A*24	100(20)
20 low/14 high labs -B	%(n)
B*15:02:01	29(4)
B*15:02	71(10)
B*15(B62)	10(2)
B*15	90(18)
14 high labs - B	%(n)
B*15:05:01	29(4)
B*15:05	71(10)
B*15(B75)	10(2)
B*15	90(18)
19 low/14 high Labs - C	%(n)
C*03:03:01:01	14(2)
C*03:03:01	14(2)
C*03:03:01G	7 (1)
C*03:03	64(9)
C*03(Cw9)	11(2)
C*03	89(17)
19 low/12 high Labs - C	%(n)
C*08:01:01	33(4)
C*08:01:01G	8 (1)
C*08:01	58(7)
C*08	100(19)

<b>Cell 1608</b>	
20 low/12 high labs - A	%(n)
A*68:01:01:02	17(2)
A*68:01:01	17(2)
A*68:01	66(8)
A*68	100(20)
12 high labs - A	%(n)
A*68:02:01:01	25(3)
A*68:02:01	8 (1)
A*68:02:01G	8 (1)
A*68:02	58(7)
20 low/11 high labs - B	%(n)
B*53:01:01	36(4)
B*53:01	64(7)
B*53	100(20)
20 low/11 high labs - B	%(n)
B*58:02:01	9 (1)
B*58:02	91(10)
B*58	100(20)
19 low/12 high labs - C	%(n)
C*04:01:01:01	17(2)
C*04:01:01	17(2)
C*04:01P	8 (1)
C*04:01	58(7)
C*04	100(19)
19 low/12 high labs - C	%(n)
C*06:02:01:01	25(3)
C*06:02:01	8 (1)
C*06:02:01G	8 (1)
C*06:02	58(7)
C*06	100(19)

**Table 10. Summary of the 402nd Cell Exchange (Cell #1605 - 1608)**

**Serological typing**

(Mixed)	
Cell 1605	
(15 Samples Typed)	
A2	100.0%
	[100.0%]
B61	66.7%
B40	26.7%
	[93.3%]
B51	100.0%
	[100.0%]
Cw2	33.3%
Cw8	26.7%
Bw4	73.3%
Bw6	66.7%
Others Found	
A28	6.7%
B60	6.7%
Cw5	6.7%

(Black)	
Cell 1606	
(15 Samples Typed)	
A11	93.3%
A11.1	6.7%
	[100.0%]
A29	100.0%
	[100.0%]
B13	100.0%
B44	100.0%
	[100.0%]
Cw4	26.7%
Cw6	13.3%
Bw4	73.3%
Others Found	
Cw16	13.3%
B37	6.7%

(Vietnamese)	
Cell 1607	
(14 Samples Typed)	
A11	92.9%
A11.1	7.1%
	[100.0%]
A24	100.0%
	[100.0%]
B75	64.3%
	[64.3%]
B62	57.1%
B15	42.9%
	[92.9%]
Cw9	7.1%
Cw3	28.6%
	[35.7%]
Cw8	28.6%
Bw6	71.4%
Others Found	
B22	7.1%
B50	7.1%
B35	7.1%
B70	7.1%

(Black)	
Cell 1608	
(14 Samples Typed)	
A68	71.4%
A28	28.6%
	[100.0%]
B53	100.0%
B58	85.7%
B17	14.3%
	[100.0%]
Cw4	28.6%
Cw6	21.4%
Bw4	71.4%
Others Found	
A2	7.1%

**Table 11. Individual laboratory results for Cell #1605**

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*02	*02	*40	*51	*02	*08	*02:01	*02:06	*40:06	*51:01	*02:02	*08:01	SSO NGS	
5133	Askar , Medhat							*02:01:01:01	*02:06:01:01	*40:06:01:01	*51:01:01	*02:02:02:01	*08:01:01	NGS	
4492	Caillat-Zucman ,	*02		*40	*51	*02	*08							SSP	
774	Cecka , J. Michael	*02	*02	*40	*51	*02	*08							SSP	
8070	Chang , Uckjin							*02:01	*02:06	*40:06	*51:01	*02:02	*08:01	SBT	
3632	Colombe , Beth V	*02	*02	*40	*51	*02	*08	*02:01	*02:06	*40:06	*51:01	*02:02	*08:01	SSP SSO	
779	Daniel , Claude	*02	*02	*40	*51	*02	*08			*40:06				SSP SSO	
3766	Dunckley , Heath	*02	*02	*40	*51	*02	*08							SSO	
747	Ferrari-Lacruz , S	*02		*40	*51	*02	*08	*02:01:01:01	*02:06:01:01	*40:06:01:01	*51:01:01	*02:02:02:01	*08:01:01	SSP SSO NGS	
762	Fischer , Gottfried							*02:01:01:01	*02:06:01:01	*40:06:01	*51:01:01	*02:02:02:01	*08:01:01	NGS	
4079	Fort , Marylise	NT	NT	*40	*51	*02	*08			*40:06	*51:01	*02:02	*08:01	SSP	B*51:24:03 B*51:24:04 B*51:24:05 C*02:111 B*51:24:01
5214	Gebel , Howard	*02		*40 (B61)	*51	*02	*08							RT-PCR	
8043	Gideoni , Osnat	*02		*40	*51	*02	*08							SSP SSO	
3545	Goldstein , Steve	*02	*02	*40	*51	*02	*08	*02:01	*02:06	*40:06	*51:01	*02:02	*08:01	SSP SSO SBT	A*02:665 C*08:102 A*02:629 B*51:193 C*08:22 C*08:99
810	Hamdi , Nuha	*02	*02	*40	*51	*02	*08							SSO	
3808	Hogan , Patrick	*02		*40	*51	*02	*08							SSP	
771	Israel , Shoshana	*02	*02	*40	*51	*02	*08	*02:01	*02:06	*40:06	*51:01	*02:02	*08:01	SSO SBT	
725	Lardy , N.M.	*02		*40	*51	*02	*08							SSO	
745	Latham , Katy							*02:01:01	*02:06:01:01	*40:06:01	*51:01:01	*02:02:02:01	*08:01:01	SSP SBT NGS	
278	Lee , Jar-How	*02	*02	*40	*51	*02	*08	*02:01	*02:06	*40:06	*51:01	*02:02	*08:01		
6649	Lim , Young Ae	*02		*40	*51									SSP	
8001	Rao , Prakash	*02		*40 (B61)	*51	*02	*08								
3625	Rees , Tracey	*02	*02	*40	*51	*02	*08	*02:01	*02:06	*40:06	*51:01	*02:02	*08:01		A*02:629 A*02:642 A*02:665 B*51:193
4251	Schiller , Jennifer	*02	*02	*40	*51	*02	*08	*02:01:01:01G	*02:06	*40:06	*51:01P	*02:02	*08:01:01G	SSO SBT	
5642	Varnavidou-Nicol	*02		*40	*51	*02	*08							SSP	
3186	Watson , Narelle	*02	*02	*40	*51	*02	*08							SSO	
16	Zhang , Aiwen							*02:01:01	*02:06:01	*40:06	*51:01:01	*02:02:02	*08:01:01	NGS	

**Table 12. Individual laboratory results for Cell #1606**

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*11	*29	*13	*44	*04	*16	*11:01	*29:02	*13:01	*44:03	*04:06	*16:01	SSO NGS	
5133	Askar , Medhat							*11:01:01:01	*29:02:01:01	*13:01:01	*44:03:01	*04:06	*16:01:01:01	NGS	
4492	Caillat-Zucman , S	*11	*29	*13	*44	*04	*16							SSP	
774	Cecka , J. Michael	*11	*29	*13	*44	*04	*16					*04:06		SSP	
8070	Chang , Uckjin							*11:01	*29:02	*13:01	*44:03	*04:06	*16:01	SBT	
3632	Colombe , Beth W	*11	*29	*13	*44	*04	*16	*11:01	*29:02	*13:01	*44:03	*04:06	*16:01	SSP SSO	
779	Daniel , Claude	*11	*29	*13	*44	*04	*16					*04:06		SSP SSO	
3766	Dunckley , Heath	*11	*29	*13	*44	*04	*16							SSO	
747	Ferrari-Lacruz , Sy	*11	*29	*13	*44	*04	*16	*11:01:01:01	*29:02:01:01	*13:01:01	*44:03:01:01	*04:06	*16:01:01	SSP SSO NGS	
762	Fischer , Gottfried							*11:01:01:01	*29:02:01:01	*13:01:01	*44:03:01	*04:06	*16:01:01:01	NGS	
4079	Fort , Marylise	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP	
5214	Gebel , Howard	*11	*29	*13	*44	*04	*16							RT-PCR	
8043	Gideoni , Osnat	*11	*29	*13	*44	*04	*16	*11:01	*29:02	*13:01	*44:03	*04:06	*16:01	SSP SSO	
3545	Goldstein , Steven	*11	*29	*13	*44	*04	*16	*11:01	*29:02	*13:01	*44:03	*04:06	*16:01	SSP SSO SBT	A*29:95
810	Hamdi , Nuha	*11	*29	*13	*44		*16					*04:06		SSO	
3808	Hogan , Patrick	*11	*29	*13	*44	*04	*16							SSP	
771	Israel , Shoshana	*11	*29	*13	*44	*04	*16	*11:01	*29:02	*13:01	*44:03	*04:06	*16:01	SSO SBT	
725	Lardy , N.M.	*11	*29	*13	*44	*04	*16							SSO	
745	Latham , Katy							*11:01:01:01	*29:02:01:01	*13:01:01	*44:03:01	*04:06	*16:01:01:01	SSP SBT NGS	
278	Lee , Jar-How	*11	*29	*13	*44	*04	*16	*11:01	*29:02	*13:01	*44:03	*04:06	*16:01		
6649	Lim , Young Ae	*11	*29	*13	*44									SSP	
8001	Rao , Prakash	*11	*29	*13	*44	*04	*16								
3625	Rees , Tracey	*11	*29	*13	*44	*04	*16	*11:01	*29:02	*13:01	*44:03	*04:06	*16:01		C*16:58
4251	Schiller , Jennifer	*11	*29	*13	*44	*04	*16	*11:01:01G	*29:02:01G	*13:01	*44:03	*04:06	*16:01:01G	SSO SBT	
5642	Varnavidou-Nicola	*11	*29	*13	*44	*04	*16							SSP	
3186	Watson , Narelle	*11	*29	*13	*44	*04	*16							SSO	
16	Zhang , Aiwen							*11:01:01	*29:02:01	*13:01:01	*44:03:01	*04:06	*16:01:01	NGS	



**Table 13. Individual laboratory results for Cell #1607**

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*11	*24	*15	*15	*03	*08	*11:01	*24:02	*15:02	*15:05	*03:03	*08:01	SSO NGS	
5133	Askar , Medhat							*11:01:01:01	*24:02:01:01	*15:02:01	*15:05:01	*03:03:01:01	*08:01:01	NGS	
4492	Caillat-Zucman , S	*11	*24	*15		*03	*08							SSP	
774	Cecka , J. Michael	*11	*24	*15	*15	*03	*08							SSP	
8070	Chang , Uckjin							*11:01	*24:02	*15:02	*15:05	*03:03	*08:01	SBT	
3632	Colombe , Beth W	*11	*24	*15	*15	*03	*08	*11:01	*24:02	*15:02	*15:05	*03:03	*08:01	SSP SSO	
779	Daniel , Claude	*11	*24	*15	*15	*03	*08			*15:02	*15:05	*03:03		SSP SSO	
3766	Dunckley , Heathe	*11	*24	*15	*15	*03	*08							SSO	
747	Ferrari-Lacraz , Sy	NT												SSP SSO NGS	
762	Fischer , Gottfried							*11:01:01:01	*24:02:01:01	*15:02:01	*15:05:01	*03:03:01:01	*08:01:01	NGS	
4079	Fort , Marylise	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP	
5214	Gebel , Howard	*11	*24	*15 (62)	*15 (B75)	*03 (Cw9)	*08							RT-PCR	
8043	Gideoni , Osnat	*11	*24	*15		*03	*08							SSP SSO	
3545	Goldstein , Steven	*11	*24	*15	*15	*03	*08	*11:01	*24:02	*15:02	*15:05	*03:03	*08:01	SSP SSO SBT	A*24:352 C*08:22 C*08:99 C*08:102 A*24:353 C*03:20N C*03:227 C*03:341
810	Hamdi , Nuha	*11	*24	*15	*15	*03	*08							SSO	
3808	Hogan , Patrick	*11	*24	*15	*15	*03	*08			*15:02	*15:05	*03:03		SSP	
771	Israel , Shoshana	*11	*24	*15	*15	*03	*08	*11:01	*24:02	*15:02	*15:05	*03:03	*08:01	SSO SBT	
725	Lardy , N.M.	*11	*24	*15		*03	*08							SSO	
745	Latham , Katy							*11:01:01:01	*24:02:01:01	*15:02:01	*15:05:01	*03:03:01	*08:01:01	SSP SBT NGS	
278	Lee , Jar-How	*11	*24	*15	*15	*03	*08	*11:01	*24:02	*15:02	*15:05	*03:03	*08:01		
6649	Lim , Young Ae	*11	*24	*15	*15									SSP	
8001	Rao , Prakash	*11	*24	*15 (62)	*15 (B75)	*03 (Cw9)	*08								
3625	Rees , Tracey	*11	*24	*15	*15	*03	*08	*11:01	*24:02	*15:02	*15:05	*03:03	*08:01		B*15:283 C*03:20N C*03:227 A*24:352 A*24:353 B*15:31 B*15:39
4251	Schiller , Jennifer	*11	*24	*15	*15	*03	*08	*11:01:01G	*24:02P	*15:02	*15:05	*03:03:01G	*08:01:01G	SSO SBT	
5642	Varnavidou-Nicola	*11	*24	*15	*15	*03	*08							SSP	
3186	Watson , Narelle	*11	*24	*15	*15	*03	*08							SSO	
16	Zhang , Aiwen							*11:01:01	*24:02:01	*15:02:01	*15:05:01	*03:03:01	*08:01:01	NGS	

**Table 14. Individual laboratory results for Cell #1608**

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	SSO NGS	
5133	Askar , Medhat							*68:01:01:02	*68:02:01:01	*53:01:01	*58:02:01	*04:01:01:01	*06:02:01:01	NGS	
4492	Caillat-Zucman ,	*68		*53	*58	*04	*06							SSP	
774	Cecka , J. Michael	*68		*53	*58	*04	*06							SSP	
8070	Chang , Uckjin							*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	SBT	
3632	Colombe , Beth V	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	SSP SSO	
779	Daniel , Claude	*68	*68	*53	*58	*04	*06							SSP SSO	
3766	Dunckley , Heath	*68	*68	*53	*58	*04	*06							SSO	
747	Ferrari-Lacruz , S	NT												SSP SSO NGS	
762	Fischer , Gottfried							*68:01:01	*68:02:01:01	*53:01:01	*58:02	*04:01:01:01	*06:02:01:01	NGS	A*68:39 A*68:27:01
4079	Fort , Marylise	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP	
5214	Gebel , Howard	*68		*53	*58	*04	*06							RT-PCR	
8043	Gideoni , Osnat	*68		*53	*58	*04	*06							SSP SSO	
3545	Goldstein , Steve	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	SSP SSO SBT	C*04:30 C*04:82 C*04:226 C*06:83 A*68:163
810	Hamdi , Nuha	*68	*68	*53	*58	*04	*06							SSO	
3808	Hogan , Patrick	*68		*53	*58	*04	*06							SSP	
771	Israel , Shoshana	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	SSO SBT	
725	Lardy , N.M.	*68		*53	*58	*04	*06							SSO	
745	Latham , Katy							*68:01:01:02	*68:02:01:01	*53:01:01	*58:02	*04:01:01	*06:02:01:01	SSP SBT NGS	
278	Lee , Jar-How	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02	*04:01	*06:02		
6649	Lim , Young Ae	*68		*53	*58									SSP	
8001	Rao , Prakash	*68		*53	*58	*04	*06								
3625	Rees , Tracey	*68	*68	*53	*58	*04	*06	*68:01	*68:02	NT	NT	*04:01	*06:02		A*68:27 A*68:39 C*04:226 C*06:83
4251	Schiller , Jennifer	*68	*68	*53	*58	*04	*06	*68:01	*68:02:01G	*53:01	*58:02	*04:01P	*06:02:01G	SSO SBT	
5642	Varnavidou-Nicol	*68		*53	*58	*04	*06							SSP	
3186	Watson , Narelle	*68	*68	*53	*58	*04	*06							SSO	
16	Zhang , Aiwen							*68:01:01	*68:02:01	*53:01:01	*58:02	*04:01:01	*06:02:01	NGS	A*68:27:01 A*68:39

**Table 15. Individual laboratory results for Cell #1605-1608 by serology**

Investigator	Days Old	Cell No 1605 (Mixed)									Cell No 1606 (Black)							Cell No 1607 (Vietnamese)							Cell No 1608 (Black)											
		Viab %	A2	B61	B51	Cw2	Cw8	Bw4	Bw6	OTHERS	Viab %	A11	A29	B13	B44	Cw4	Bw4	OTHERS	Viab %	A11	A24	B75	B62	Cw3	Cw8	Bw6	OTHERS	Viab %	A68	B53	B58	Cw4	Cw6	Bw6	Bw4	OTHERS
Cecka, J. Mic	3	>95	+	+	+			+	+		>95	+	+	+	+			>95	+	+	+	+			+		>95	+	+	+				+		
Dunckley, Hea	6	95	+	+	+						95	+	+	+	+			95	+	+	+	+					95	+	+	+						
Enczmann, J		95	+	+	+						95	+	+	+	+			95	+	+	+	+					95	+	+	+						
Ferrari-Lacra		90	+	B40	+	+	+	+	+		85	+	+	+	+	+	Cw16	NT									NT									
Fort, Marylis		NT									NT							NT									NT									
Hahn, Amy B.		99	+	+	+			+	+		99	+	+	+	+	+		99	+	+	+				+	B70	99	+	+	+				+		
Hogan, Patric		70	+	+	+			+	+		70	+	+	+	+	+		70	+	+	+	+			+		70	+	+	+				+		
Latham, Katy	3	100	+	+	+			+	+		100	+	+	+	+	+		100	+	+	+	B15			+		100	+	+	+					+	
Permpikul, Ve	6	80	+	+	+			+	+		80	A11.1	+	+	+	+		80	A11.1	+	+	+			+		80	+	+	+				+		
Pule, Ziningi		90	+		+	+	+			B60	85	+	+	+	+	+	Cw6,B37	85	+	+	B35	+	+	+	B50	80	A28	+	+	+	+					
Rees, Tracey		90	+	+	+	+	+	+	+		90	+	+	+	+	+	Cw16	90	+	+	+	+	Cw9	+	+		90	+	+	+	+	+		+		
Renac, Virgin	3	100	+	B40	+			+	+		100	+	+	+	+	+		100	+	+	B15			+		100	A28	+	+				+			
Shai, Isaac	8	92	+	B40	+	+	+	+	+	A28,Cw5	92	+	+	+	+	+	Cw6	90	+	+	B15		+	+	B22	90	A28	+	B17	+	+		+	A2		
Varnavidou-Ni	7	80	+	+	+			+			85	+	+	+	+	+		80	+	+	+	B15		+		90	+	+	+				+			
Vidan-Jeras,	7	100	+	+	+			+	+		100	+	+	+	+	+		100	+	+	B15	+	+			100	+	+	+				+			
Zhang, Aiwen		95	+	B40	+	+					95	+	+	+	+			95	+	+	B15		+	+		95	A28	+	B17	+						

## SERUM EXCHANGE #560

The results for **Serum Exchange 560 (sera 1233 - 1236)**, are summarized in Tables 16 -21 and individual laboratory results by method are listed in

Tables 22-32. Sera strongly positive to A1, A10, A11, and A2 were examined in this study.

1233	method	#labs	A1	A25	A26	A34	A66	A6601	A36	A11	A1101	A1102	B8	A23	A24	A43	A80	B18	B35	B41	B42	B45	B50	B54	B55	B56	B59	B62	B64	B65	B67	B7	B71	B73	B75	B76	
class I	NIH-Std	3	67	33	33	33	33			67			67																								
	NIH-Ext	2	50	50	50	50	50			50																											
	AHG	3	100	100	100	100	100		100	100			100	67	67																						
	Luminex	27	100	100	100	100	74	41	100	89	30	30	100	100	96	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	C1q	1	no consensus																																		
	Other	1	no consensus																																		

  

1233	method	#labs	Cw6	Cw7	Cw18	B60	B61	B72	B78	B38	B39	B3901	B48	B81	B8101	B51	B82	B37	B77	B53	B27	B2708	Bw6	A33	A3	A68	Cw4	Cw17	Cw15	Cw2	B52
	Luminex	27	100	100	96	96	93	96	96	89	89	22	89	89	30	89	85	85	81	70	63	59	48	48	33	26	81	70	44	30	22

1233	method	#labs	DQ2	DR7	DP19	DR16	DQ5	DR52	DQA1*01	DQA1*05	DQ6
class II	NIH-Ext	1	no specificities assigned								
	Luminex	25	100	68	60	24	24	10	12	12	8
	C1q	1	no consensus								
	Other	1	no specificities assigned								

**Serum 1233** was reported as positive to A1 and A10 (A24, A26, A34) by all methods. Additional reactivity to A66, A11, and 1C specificities was reported by various methods. Strong reactivity to 5C, 7C, and 8C specificities, as well as anti-Cw6, -Cw7, -Cw18 reactivity, was reported by Luminex. In addition to the allele specific reactivity listed above,

some luminex labs also reported allele specific A\*24:02 reactivity. For class II, strong anti-DQ2 reactivity was reported by Luminex and Flow PRA. Additional anti-DR7 and DP19 reactivity was also reported by a number of Luminex labs.

1234	method	#labs	A25	A26	A66	A6601	A6602	A11	A1101	A1102	A34	A1	A80	A68	A69	A28	A3	A2	A31	A33	A36	A43	A74	A30	A29	A24	A2403	A203
class I	NIH-Std	3	33	33	33			67			33																	
	NIH-Ext	2	100	100	100			100			100	50					50											
	AHG	3	67	100	100			100			67	33	33	33		33												
	Luminex	27	100	100	41	37	37	85	30	30	100	100	100	100	100		100	100	100	100	100	100	100	100	93	37	37	33
	C1q	1	no consensus																									
	Other	1	no consensus																									

1234	method	#labs	DQ7	DQ8	DQ9	DR1	DR10	DR4	DQ4	DR14	DR15	DR51	DQA1*03	DQ2	DR13	DP14	DQA1*06	DQA1*04	DQA1*05	DR1404	DPW5	DQ3	DQ6	DR103	DR16	DR17	DR18	DR8
class II	NIH-Ext	1	no specificities assigned																									
	Luminex	25	100	100	100	100	100	100	100	100	100	84	64	28	20	16	16	12	12	12	8	8	8	8	8	8	8	8
	C1q	1	no consensus																									
	Other	1	no consensus																									

For **Serum 1234**, anti-A25 and –A26 reactivity was reported by all methods. Additional reactivity to A66, A34, A28 (A68, A69), as well as reactivity to a number of 1C specificities, was reported by various methods. Additional reactivity to A33 and A74 was also reported by Luminex. Allele level reactivity to A\*24:03 was reported by 2 Luminex labs. For class II, reactivity to DR4,

DQ4, DQ7, DQ8, and DQ9 was reported by Luminex, Flow PRA, and C1q. Additional reactivity to DR1, DR10, and DR15, was reported by Luminex and Flow PRA. Anti-DR14 and ant-DR51 reactivity was also reported by Luminex.

1235	method	#labs	A2	B57	B58	A68	A69	A28	B18	B64	B65	B27	B2708	B45	B44	B50	B51	B54	B55	B67	B72	B76	B35	B62	B47	B49	B53	
class I	NIH-Std	3	33																									
	NIH-Ext	2	100	100	100																							
	AHG	3	100	67	67	67		33	33	33	33	33																
	Luminex	27	100	100	100	100	100		100	100	100	96	44	96	93	96	96	96	96	96	96	96	96	96	96	96	96	96
	C1q	1	no consensus																									
	Other	1	no consensus																									
1235	method	#labs	B56	B71	B63	B13	B38	B39	B3901	B52	B75	B77	B78	B7801	B59	B46	B37	B82	A24	A2403	Cw5	B73	A33	A23	Bw4	A203		
	Luminex	27	96	96	96	93	93	91	26	93	93	93	93	22	93	89	89	81	67	19	59	56	56	48	33	30		

1235	method	#labs	DR11	DR13	DR14	DR17	DR18	DPw2	DPw3	DPw6	DR52	DR7	DQ2	DP18	DP28	DP14	DP17	DP9	DP10	DP20	DP402	DPw4	DQA1*05	DR1403	DPA1*01	DPA1*04	DR16	DR3	DQ7
class II	NIH-Ext	1	no specificities assigned																										
	Luminex	25	100	100	100	100	100	96	96	96	96	96	96	92	92	88	88	84	80	80	60	60	20	16	12	12	12	12	8
	C1q	1	no consensus																										
	Other	1	no consensus																										

**Serum 1235** was reported as positive to A2 by all methods. In addition, anti-B57 and -B58 reactivity was reported by all methods, except NIH-standard and C1q. Luminex and antiglobulin also reported reactivity to B18, B64, B65, and B27, with some labs reporting allele specific B\*27:08 reactivity. Additional reactivity to B38, B39, B44, B45, B50, as well as reactivity to 5C

and 7C specificities, was reported by Luminex. For class II, Luminex, Flow PRA, and C1q each reported reactivity to DR11, DR17, DR18, and DR52. Additional reactivity to DQ2, DR13 and DR14 was reported by Luminex and Flow PRA. In addition, reactivity to a number of DP specificities was also reported by Luminex and C1q.

1236	method	#labs	A2	B57	B58	A68	A69	A28	B62	B35	B46	B50	B13	B51	B45	B52	B53	B56	B61	B71	B72	B70	B44	B55	B49	B63	B75	B76	B77	Cw6	Cw2	Cw15	Cw17	Cw18	Cw4	Cw5	A74	A24	A2403				
class I	NIH-Std	3	67																																								
	NIH-Ext	2	100	50																																							
	AHG	3	10	100	33	100		67	67	33	33	33	33	33	33	33	33	33	33		33	33	33	33																			
	Luminex	27	100	100	100	100	100		100	100	100	100	96	93	89	100	100	100	26	100	100		93	96	100	100	100	100	100	100	100	96	96	96	96	96	96	93	93	33			
	C1q	1	no consensus																																								
	Other	1	no consensus																																								
1236	method	#labs	A3	A32	A29	A11	A1101	A1102	Cw12	A31	A23	B78	B7801	B27	B2708	B67	A34	B38	Cw10	A30	B54	Cw9	A25	B64	A33	A43	B41	B42	B59	B39	A66	A6602	B18	B37	B48	A203	A26	B47	B65	B7			
	Luminex	27	89	89	85	81	30	26	78	74	70	85	22	70	30	70	67	59	59	56	56	56	52	52	52	48	44	44	44	41	41	22	33	33	33	30	30	26	26	22			

1236	method	#labs	DQ4	DQ8	DQ9	DR1	DR4	DR9	DQ6	DR53	DQ5	DR7	DQA1*03	DR14	DR10	DQ2	DR51	DR15	DQ7	DQA1*01	DP23	DQ3
class II	NIH-Ext	1	no specificities assigned																			
	Luminex	25	100	100	100	100	100	100	96	96	96	92	60	60	40	28	28	0	20	16	8	8
	C1q	1	no consensus																			
	Other	1	no consensus																			

For **Serum 1236**, A2 reactivity was reported by all methods. Additional reactivity B57 and B58 was also reported by various methods. In addition, Luminex and antiglobulin reported reactivity to a number of 5C and 7C specificities. Luminex labs also reported C-locus reactivity to Cw2, Cw4, Cw5, Cw15, Cw17, and Cw18, as well as anti-A24 and -A74 reac-

tivity. Strong class II reactivity to DR4 was reported by Luminex, Flow PRA, and C1q. In addition, reactivity to DQ4, DQ5, DQ6, DQ8, DQ9, DR1, and DR9 was reported by Luminex and Flow PRA. Strong anti-DR7 and DR53 was also reported by Luminex.

## SERUM EXCHANGE #561

The results for **Serum Exchange 561 (sera 1237 - 1240)**, are summarized in Tables 33 –38 and individual laboratory results by method are listed

in Tables 39-48. Sera strongly positive to B27 and 12C specificities were examined in this study.

1237	method	#labs	B27	B2708	B7	B47	B13	B60	B61	B51	B53	A24	A2403	A25	A26	A34	A66	A6602	A6601	A32	A68	A2	A203	A23	B44	B42	B81	B8101	B8	B37	B38	B57	
class I	NIH-Std	2	50		50																												
	NIH-Ext	2	50			50	50																										
	AHG	3	100		33	67		67		67	57	33		33							33				33	33							
	Luminex	27	100	43	100	100	100	100	100	96	96	100	32	100	82	96	89	29	25	100	100	96	25	96	100	96	86	29	82	100	100	100	
	Flow	3	no specificities assigned																														
	C1q	2	50		100																												
	Other	2	50		50		50	50	50			50		50	50	50	50			50	50	50		50	50	50	50		50				
1237	method	#labs	B73	B63	A33	A28	A69	B49	B52	B55	B58	B67	B77	B59	B41	B48	B56	B54	Cw7	B82	B8201	B39	A29	Cw17	A30	A43	B45	A31	Bw4	A74	B18	B76	Cw2
	Luminex	27	100	100	96	33	96	96	96	96	96	96	96	96	93	93	93	86	82	79	21	75	54	54	39	32	32	29	29	25	25	21	21

1237	method	#labs	NEG		
class II	NIH-Ext	1	Undetermined		
	Luminex	15	93		
	Flow	3	67		
	C1q	1	no consensus		
	Other	2	100		

**Serum 1237** was reported as positive for B27, with a few Luminex labs reporting allele specific B\*27:08 reactivity. Additional reactivity to a number of other 7C specificities was reported by various methods. Reactivity to B51 and B53 was also reported by antiglobulin and Luminex. In addition,

Luminex and Flow PRA reported reactivity to A2, A23, B8, B44, and B81, along with reactivity to a number of 10C specificities. Additional reactivity to a number of 5C and 7C specificities was also reported by Luminex. This sample was reported as negative for class II.



1238	method	#labs	B27	B2708	B7	B13	B42	B44	B47	B55	B56	B60	B61	B67	B48	B81	B8101	B73	B37	A32	B54	B8201	B82	B38	B41	B49	B50	B62	B64	B71	B72	B76	A24	A2403	A23	
class I	NIH-Std	2	100		100	50																														
	NIH-Ext	2	50		50				50																											
	AHG	3	50		50	50	50		50	50	50	50	50	50	50	50																		33	33	
	Luminex	27	100	43	100	100	100	100	100	100	100	100	100	100	96	86	29	100	100	100	100	25	86	100	100	100	100	100	100	100	100	100	96	36	86	
	Flow	3	no specificities assigned																																	
	C1q	2	100		100	50	50	50	100	50	50	50	50	50	50	100		100	100	100	50		50													
	Other	2	50		50	50	50		50	50	50	50	50	50	50																					
1238	method	#labs	B77	B35	B75	Cw2	Cw5	Cw6	Cw15	Cw18	Cw17	Cw4	B18	B59	B65	B45	B52	B39	B3901	B53	B51	B8	A25	A6602	A66	A74	B78	Cw1	Cw8	Cw16	Cw12					
	Luminex	27	93	93	86	96	96	96	93	93	89	89	96	89	96	96	89	86	25	86	82	82	64	46	29	18	46	54	29	21	14					

1238	method	#labs	DQ7	DQ8	DQ9	DR4	DR53	DR9	DR7	DR14	DR10	DQ4	DR1	DQA1*05	DQ2	DQA1*04	DQA1*03	DQA1*06	DQA1*02	DR12	DR51	DR103	DR1404	
class II	NIH-Ext	1	Undetermined																					
	Luminex	24	100	100	100	100	100	100	96	96	83	58	54	50	46	38	33	29	17	17	17	13	8	
	Flow	3	no specificities assigned																					
	C1q	1	no consensus																					
	Other	2	50	50	50	50		50	50		50													

For **Serum 1238**, anti-B27 and -B7 reactivity was reported by all methods, with some Luminex labs reporting allele specific B\*27:08 reactivity. Additional reactivity to B37, A32, and number of 7C specificities was reported by various methods. In addition, Luminex reported reactivity to A23, A24, as well as reactivity to 5C, 8C, and C-locus (Cw2, Cw4, Cw5, Cw6, Cw15,

Cw17, Cw18) specificities. For class II, reactivity to DQ7, DQ8, DQ9, DR4, DR7, and DR9 was reported by Luminex and Flow PRA. Additional strong DR14 and DR53 reactivity was also reported by Luminex. This sample was reported as negative for class II by C1q.

1239	method	#labs	B44	B45	B49	B50	B60	B61	B7	B13	B41	B27	B47	B48	B73	Cw2	Cw17	B81	B8101	A66	A6602	B62	B67	B55	Cw10	Cw9	
class I	NIH-Std	2	100	50	50	50	100	100	100	50																	
	NIH-Ext	2	100	100	100	100	100	50	50	50	100																
	AHG	3	100	100	100	100	100	100	100	100	67	100	67														
	Luminex	27	100	100	100	100	100	100	100	100	100	100	100	100	100	100	96	89	25	71	57	100	96	93	86	86	
	Flow	3	no specificities assigned																								
	C1q	2	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		50	50						
	Other	2	50	50	50	50	50	50	50	50	50	50	50	50													
1239	method	#labs	B38	B39	B3901	B42	B72	B37	B46	B76	B57	B71	Cw15	B59	Cw5	Cw8	Cw1	Cw16	B56	Cw18	B2708	Cw12	B63	Cw14	A68	A74	A2
	Luminex	27	86	75	14	82	82	75	75	71	68	68	68	64	61	61	57	54	50	50	43	32	25	25	21	18	14

1239	method	#labs	NEG	DP11	DQ7
class II	NIH-Ext	1	Undetermined		
	Luminex	20		55	10
	Flow	3	100		
	C1q	1	no consensus		
	Other	2	100		

**Serum 1239** was reported as positive for B44, B45, B49, B50, B60, B61, B7, and B13 by all methods. In addition, anti-B41, -B27, -B47, and -B48 reactivity was reported by various methods. Additional reactivity to B73, Cw2, Cw17, B81, and A66 was reported by Luminex and C1q, with some Luminex labs reporting allele specific reactivity to B\*81:01 and A\*66:02. Reactivity to B38, B39, as well as reactivity to a number of 5C and 7C specificities, was also reported by Luminex. For class II, a number (n=11) of Luminex labs reported anti-DP11 reactivity in this sample. Interestingly, 7 Luminex labs, along with Flow PRA, C1q, and flow cytometry reported this sample as negative for class II.

Reactivity to B38, B39, as well as reactivity to a number of 5C and 7C specificities, was also reported by Luminex. For class II, a number (n=11) of Luminex labs reported anti-DP11 reactivity in this sample. Interestingly, 7 Luminex labs, along with Flow PRA, C1q, and flow cytometry reported this sample as negative for class II.

1240	method	#labs	B44	B45	B49	B50	B62	B72	B71	B70	B35	B75	B41	B13	B18	B60	B61	B48	B63	NEG	B38	B53	B76	B77	B47	B51	B52	B78	B37	B56	B64	B59	B39	B57	B58	B65	B8	B46	B82	B3901	B7801	Cw5	Cw9	Cw10																
class I	NIH-Std	2	100	50																																																								
	NIH-Ext	2	100	100	100	100	100	50	50		50																																																	
	AHG	3	100	100	67	67	67	67		67		67	33														33																																	
	Luminex	26	100	100	100	100	100	100	96		100	96	100	96	96	96	96	88	88		100	100	100	100	96	96	96	92	88	88	88	88	81	81	77	73	69	69	42	27	19	15	15	15																
	Flow	3	no specificities assigned																																																									
	C1q	2																		50																																								
	Other	2	50	50	50	50	50	50	50		50	50	50	50	50	50	50	50	50																																									

1240	method	#labs	DR103	DR51	DR7	DR1	DR9	DR53	DR10	DQ6	DP11	DP13	DP14	DP18	DP9	DPA1*01	DPA1*03	DPw1	DPw2	DPw3	DPw4	DPw5	DPw6	DP15	DP19	DPA1*04	DR4
class II	NIH-Ext	1	Undetermined																								
	Luminex	22	77	77	77	68	55	45	33	17	13	13	13	13	13	13	13	13	13	13	13	13	13	9	9	9	9
	Flow	3	no specificities assigned																								
	C1q	1	no consensus																								
	Other	2	no specificities assigned																								

For **Serum 1240**, strong anti-B44 and B45 reactivity was reported. Additional reactivity to a number of 5C specificities was reported by various methods. Luminex and flow PRA also reported anti-B13, -B41, -B60, -B61, and -B48 reactivity. Additional reactivity to other 7C specificities, as well as to 8C

specificities, was reported by Luminex. C1q reported this sample as negative for class I. For class II, anti-DR103, -DR51, and -DR7 reactivity was reported by 77% of Luminex labs. Two Luminex labs and 1 C1q lab reported this sample as negative for class II.

**NEXT MAILING DATE: March 7, 2018**

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**Table 16. Summary of the 560<sup>th</sup> Serum Exchange (Serum #1233-1236) by NIH-Standard and NIH-Extended - class I**

<b>Method: NIH-Standard</b>											
<b>*** Serum 1233 ***</b>			<b>*** Serum 1234 ***</b>			<b>*** Serum 1235 ***</b>			<b>*** Serum 1236 ***</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
A1	67%	100%	A11	67%	100%	A2	33%	100%	A2	67%	92%
B8	67%	100%	A25	33%	100%						
A11	67%	50%	A26	33%	100%						
A25	33%	100%	A34	33%	100%						
A26	33%	100%	A66	33%	100%						
A34	33%	100%									
A66	33%	100%									

<b>Method: NIH-Extended</b>											
<b>*** Serum 1233 ***</b>			<b>*** Serum 1234 ***</b>			<b>*** Serum 1235 ***</b>			<b>*** Serum 1236 ***</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
A1	50%	100%	A11	100%	100%	B57	100%	100%	A2	100%	100%
A11	50%	100%	A26	100%	100%	B58	100%	100%	B57	50%	100%
A25	50%	100%	A66	100%	100%	A2	100%	94%			
A26	50%	100%	A25	100%	67%						
A34	50%	100%	A34	100%	50%						
A66	50%	100%	A1	50%	73%						
			A3	50%	50%						

**Table 17. Summary of the 560th Serum Exchange (Serum #1233-1236) by Antiglobulin - class I**

Method: Antiglobulin											
*** Serum 1233 ***			*** Serum 1234 ***			*** Serum 1235 ***			*** Serum 1236 ***		
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	100%	100%	A11	100%	100%	A2	100%	100%	A2	100%	100%
A11	100%	100%	A26	100%	100%	A68	67%	100%	A68	100%	100%
A25	100%	100%	A66	100%	100%	B58	67%	100%	B57	100%	100%
A26	100%	100%	A25	67%	100%	B57	67%	75%	A28	67%	100%
A34	100%	100%	A34	67%	100%	A28	33%	100%	B62	67%	100%
A36	100%	100%	A1	33%	100%	B65	33%	100%	B13	33%	100%
A66	100%	100%	A80	33%	100%	B64	33%	67%	B35	33%	100%
B8	100%	100%	A68	33%	62%	B18	33%	50%	B45	33%	100%
A23	67%	100%	A28	33%	33%	B27	33%	50%	B46	33%	100%
A24	67%	100%							B50	33%	100%
A32	33%	100%							B51	33%	100%
A80	33%	100%							B52	33%	100%
B64	33%	100%							B56	33%	100%
B65	33%	100%							B58	33%	100%
BW6	33%	100%							B61	33%	100%
									B70	33%	100%
									B72	33%	100%
									B53	33%	83%
									B55	33%	83%
									B44	33%	78%

**Table 18. Summary of the 560th Serum Exchange (Serum #1233-1236) by Other and C1q - class I**

Method: Other											
<b>*** Serum 1233 ***</b>			<b>*** Serum 1234 ***</b>			<b>*** Serum 1235 ***</b>			<b>*** Serum 1236 ***</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: C1q											
<b>*** Serum 1233 ***</b>			<b>*** Serum 1234 ***</b>			<b>*** Serum 1235 ***</b>			<b>*** Serum 1236 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

**Table 19. Summary of the 560th Serum Exchange (Serum #1233-1236) by Luminex - class I**

Method: Luminex											
*** Serum 1233 ***			*** Serum 1234 ***			*** Serum 1235 ***			*** Serum 1236 ***		
27 typing Labs			26 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%	A2	100%	100%	A2	100%	100%
A23	100%	100%	A2	100%	100%	A68	100%	100%	A68	100%	100%
A25	100%	100%	A25	100%	100%	A69	100%	100%	A69	100%	100%
A26	100%	100%	A26	100%	100%	B18	100%	100%	B35	100%	100%
A34	100%	100%	A3	100%	100%	B57	100%	100%	B46	100%	100%
A36	100%	100%	A31	100%	100%	B58	100%	100%	B49	100%	100%
A43	100%	100%	A33	100%	100%	B64	100%	100%	B50	100%	100%
A80	100%	100%	A34	100%	100%	B65	100%	100%	B52	100%	100%
B18	100%	100%	A36	100%	100%	B27	96%	100%	B53	100%	100%
B35	100%	100%	A43	100%	100%	B45	96%	100%	B56	100%	100%
B41	100%	100%	A68	100%	100%	B50	96%	100%	B57	100%	100%
B42	100%	100%	A69	100%	100%	B51	96%	100%	B58	100%	100%
B45	100%	100%	A74	100%	100%	B54	96%	100%	B62	100%	100%
B50	100%	100%	A80	100%	100%	B55	96%	100%	B63	100%	100%
B54	100%	100%	A30	100%	90%	B67	96%	100%	B71	100%	100%
B55	100%	100%	A29	96%	90%	B72	96%	100%	B72	100%	100%
B56	100%	100%	A11	93%	100%	B76	96%	100%	B75	100%	100%
B59	100%	100%	A66	85%	100%	B35	96%	83%	B76	100%	100%
B62	100%	100%	A24	41%	50%	B62	96%	80%	B77	100%	100%
B64	100%	100%	A2403	37%	100%	B47	96%	75%	Cw6	100%	100%
B65	100%	100%	A6601	37%	100%	B49	96%	75%	Cw2	100%	89%
B67	100%	100%	A6602	37%	100%	B53	96%	75%	B13	96%	100%
B67	100%	100%	A203	33%	100%	B56	96%	75%	B55	96%	100%
B7	100%	100%	A1101	30%	100%	B71	96%	75%	Cw15	96%	100%
B71	100%	100%	A1102	30%	100%	B63	96%	60%	Cw17	96%	100%
B73	100%	100%				B13	93%	100%	Cw18	96%	100%
B75	100%	100%				B38	93%	100%	Cw4	96%	100%
B76	100%	100%				B52	93%	100%	Cw5	96%	100%
B8	100%	100%				B75	93%	100%	A74	93%	100%
Cw6	100%	100%				B77	93%	100%	B44	93%	100%
Cw7	100%	91%				B78	93%	100%	B51	93%	100%
B60	96%	100%				B44	93%	75%	A24	93%	67%
B72	96%	100%				B59	93%	75%	A3	89%	100%
B78	96%	100%				B46	89%	100%	A32	89%	100%
Cw18	96%	100%				B37	89%	75%	B45	89%	100%
A24	96%	92%									

**Table 19. Summary of the 560th Serum Exchange (Serum #1233-1236) by Luminex - class I**

Method: Luminex - Cont.								
*** Serum 1233 ***			*** Serum 1235 ***			*** Serum 1236 ***		
27 typing Labs			27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B61	93%	100%	B39	81%	100%	A29	85%	100%
A11	89%	100%	B82	81%	100%	B78	85%	100%
B38	89%	100%	A24	67%	100%	A11	81%	92%
B39	89%	100%	Cw5	59%	100%	Cw12	78%	100%
B48	89%	100%	B73	56%	100%	A31	74%	100%
B81	89%	100%	A33	56%	50%	A23	70%	100%
B51	89%	86%	A23	48%	100%	B27	70%	100%
B82	85%	100%	B2708	44%	100%	B67	70%	100%
B37	85%	75%	Bw4	33%	77%	A34	67%	75%
B77	81%	100%	A203	30%	100%	B38	59%	100%
Cw4	81%	100%	B3901	26%	100%	Cw10	59%	100%
A66	74%	88%	B7801	22%	100%	A30	56%	100%
B53	70%	100%	A2403	19%	100%	B54	56%	100%
Cw17	70%	100%				Cw9	56%	100%
B27	63%	71%				A25	52%	100%
B2708	59%	100%				B64	52%	100%
A33	48%	100%				A33	52%	75%
Bw6	48%	100%				A43	48%	100%
Cw15	44%	100%				B41	44%	100%
A6601	41%	100%				B42	44%	100%
A3	33%	100%				B59	44%	100%
A1101	30%	100%				B39	41%	100%
A1102	30%	100%				A66	41%	75%
B8101	30%	100%				A2403	33%	100%
Cw2	30%	100%				B18	33%	100%
A68	26%	100%				B37	33%	100%
B3901	22%	100%				B48	33%	100%
B52	22%	100%				A1101	30%	100%
B46	19%	100%				A203	30%	100%
B8201	19%	100%				A26	30%	100%
						B2708	30%	100%
						A1102	26%	100%
						B47	26%	100%
						B65	26%	100%
						B61	26%	50%
						A6602	22%	100%
						B7	22%	100%
						B7801	22%	100%



**Table 20. Summary of the 560th Serum Exchange (Serum #1233-1236) by - NIH-Extended, Other and C1q class II**

Method: NIH-Extended											
<b>*** Serum 1233 ***</b>			<b>*** Serum 1234 ***</b>			<b>*** Serum 1235 ***</b>			<b>*** Serum 1236 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

Method: Other											
<b>*** Serum 1233 ***</b>			<b>*** Serum 1234 ***</b>			<b>*** Serum 1235 ***</b>			<b>*** Serum 1236 ***</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: C1q											
<b>*** Serum 1233 ***</b>			<b>*** Serum 1234 ***</b>			<b>*** Serum 1235 ***</b>			<b>*** Serum 1236 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no consensus			no consensus			no consensus		

**Table 21. Summary of the 560th Serum Exchange (Serum #1233-1236) by - Luminex class II**

Method: Luminex											
*** Serum 1233 ***			*** Serum 1234 ***			*** Serum 1235 ***			*** Serum 1236 ***		
25 typing Labs			25 typing Labs			25 typing Labs			25 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ2	100%	90%	DQ7	100%	100%	DR11	100%	100%	DQ4	100%	100%
DR7	68%	100%	DQ8	100%	100%	DR13	100%	100%	DQ8	100%	100%
DP19	60%	100%	DQ9	100%	100%	DR14	100%	100%	DQ9	100%	100%
DR16	24%	100%	DR1	100%	100%	DR17	100%	100%	DR1	100%	100%
DQ5	24%	50%	DR10	100%	100%	DR18	100%	100%	DR4	100%	100%
DR52	20%	33%	DR4	100%	100%	DPw2	96%	100%	DR9	100%	89%
DQA1*01	12%	100%	DQ4	100%	93%	DPw3	96%	100%	DQ6	96%	100%
DQA1*05	12%	100%	DR14	100%	70%	DPw6	96%	100%	DR53	96%	95%
DQ6	8%	100%	DR15	100%	64%	DR52	96%	100%	DQ5	96%	91%
DP13	4%	100%	DR51	84%	55%	DR7	96%	100%	DR7	92%	100%
DQA1*02	4%	100%	DQA1*03	64%	100%	DQ2	96%	95%	DQA1*03	60%	100%
DQA1*04	4%	100%	DQ2	28%	20%	DP18	92%	100%	DR14	60%	33%
DR18	4%	100%	DR13	20%	100%	DP28	92%	100%	DR10	40%	100%
DR9	4%	100%	DP14	16%	100%	DP14	88%	100%	DQ2	28%	55%
			DQA1*06	16%	100%	DP17	88%	100%	DR51	28%	50%
			DQA1*04	12%	100%	DP9	84%	100%	DR15	20%	100%
			DQA1*05	12%	100%	DP10	80%	100%	DQ7	20%	20%
			DR1404	12%	100%	DP20	80%	100%	DQA1*01	16%	100%
			DPw5	8%	100%	DP402	60%	92%	DP23	8%	100%
			DQ3	8%	100%	DPw4	60%	50%	DQ3	8%	100%
			DQ6	8%	100%	DQA1*05	20%	100%	DP13	4%	100%
			DR103	8%	100%	DR1403	16%	100%	DQA1*04	4%	100%
			DR16	8%	100%	DPA1*01	12%	100%			
			DR17	8%	100%	DPA1*04	12%	100%			
			DR18	8%	100%	DR16	12%	100%			
			DR8	8%	100%	DR3	12%	100%			
			DP10	4%	100%	DQ7	8%	20%			
			DPw1	4%	100%	DR15	4%	100%			
			DPw4	4%	100%	DR5	4%	100%			
			DQ1	4%	100%	DR6	4%	100%			
			DQ5	4%	100%						
			DQA1*02	4%	100%						
			DR2	4%	100%						
			DR53	4%	100%						
			DR6	4%	100%						

**Table 22. Individual laboratory results for Serum #1233-1236 by NIH-Standard and NIH-Extended - class I**

Investigator	**** Serum 1233 ****										**** Serum 1234****						**** Serum 1235 ****				**** Serum 1236 ****			Method
	Ctr	% POS	A1	B8	A11	A25	A26	A34	A66	Other	% POS	A11	A25	A26	A34	A66	Other	% POS	A2	Other	% POS	A2	Other	
Fort, Marylise	4079	NT									NT						NT				NT			STD
Hogan, Patrick	3808	49	+	+	+						11	+					4				47	+		STD
McCluskey, James	3582	56									28						69				66			STD
Vasilescu, Rodica	786	25	+	+	+	+	+	+	+		33	+	+	+	+	+	17	+			17	+		STD

Investigator	**** Serum 1233 ****										**** Serum 1234****						**** Serum 1235 ****				**** Serum 1236 ****			Method	
	Ctr	% POS	A1	A11	A25	A26	A34	A66	Other	% POS	A11	A26	A66	A25	A34	Other	% POS	B57	B58	A2	Other	% POS	A2		B57
Lardy, N.M.	725	78	+	+	+	+	+	+		54	+	+	+	+	+	A1,A3	44	+	+	+	48	+	+		EXT
Reed, Elaine F. PhD	3753	77								39	+	+	+	+	+		42	+	+	+	45	+			EXT

**Table 23. Individual laboratory results for Serum #1233-1236 by Antiglobulin**

Investigator	**** Serum 1233 ****													**** Serum 1234 ****						Method		
	Ctr	% POS	A1	A11	A25	A26	A34	A36	A66	B8	A23	A24	Other	Ctr	% POS	A11	A26	A66	A25		A34	Other
Cecka, J. Michael F	774	100	+	+	+	+	+	+	+	+	+	+	A80,BW6	774	68	+	+	+	+	+	A1,A28,A68,A80	Antiglobulin
Hahn, Amy B. PhD	910		+	+	+	+	+	+	+				A32,B64,B65	910		+	+	+				Antiglobulin
Vasilescu, Rodica	786	43	+	+	+	+	+	+	+	+	+	+		786	21	+	+	+	+	+		Antiglobulin

Investigator	**** Serum 1235 ****											**** Serum 1236 ****						Method			
	Ctr	% POS	A2	A68	B58	B57						Other	Ctr	% POS	A2	A68	B57		A28	B62	Other
Cecka, J. Michael F	774	57	+	+	+	+						B27,A28,B64,B	774	82	+	+	+	+	+	B61,B70,B50,B13	Antiglobulin
Hahn, Amy B. PhD	910		+		+	+							910		+	+	+	+	+	B46	Antiglobulin
Vasilescu, Rodica	786	29	+	+									786	36	+	+	+				Antiglobulin

**Table 24. Individual laboratory results for Serum #1233-1236 by Other and C1q - class I**

Investigator	Ctr	**** Serum 1233 ****											**** Serum 1234 ****					**** Serum 1235 ****					**** Serum 1236 ****					Method						
		% POS	A1	A11	A23	A24	A25	A26	A34	A36	A80	B8	Other	% POS	A1	A11	A25	A26	Other	% POS	A2	A68	B18	B57	B58	Other	% POS		A2	A68	B35	B49	B50	Other
Reed, Elaine F. F	3753	86	+	+	+	+	+	+	+	+	+	+		94	+	+	+	+	A34,A36	78	+	+	+	+	+	B57,B58	66	+	+	+	+	+	B57,B58,B62+	Other

Other = Flow PRA

Investigator	Ctr	**** Serum 1233 ****											**** Serum 1234 ****					**** Serum 1235 ****					**** Serum 1236 ****					Method						
		% POS	A1	A11	A23	A24	A25	A26	A34	A36	A80	B8	Other	% POS	A11	A26	A43	A6601	Other	% POS	A2					Other	% POS		A2	A68	A69			Other
Colombe, Beth W	3632	22	+	+	+	+	+	+	+	+	+	+	A43,A6601,B73+	7	+	+	+	+		5	+						6	+	+	+				C1q

**Table 25. Individual laboratory results for Serum #1233 by Luminex - class I**

		**** Serum 1233 ****																																																							
Investigator	Ctr	% POS	A1	A23	A25	A26	A34	A36	A43	A80	B18	B35	B41	B42	B45	B50	B54	B55	B56	B59	B62	B64	B65	B67	B7	B71	B73	B75	B76	B8	Cw6	Cw7	B60	B72	B78	Cw18	A24	B61	A11	B38	B39	B48	B81	B51	B82	B37	B77										
Al-Attas, Rabab A. M	8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Arnold, Paula PhD	5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Bengochea, Carrette	8045	48	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Cecka, J. Michael P	774	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Chen, Dong-Feng P	3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Colombe, Beth w. P	3632	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Daniel, Dolly	5219	44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Du, Keming	8086	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Dunckley, Heather	3766	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Fort, Marylise	4079		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Gebel, Howard PhD	5214	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hahn, Amy B. PhD	910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hamdi, Nuha	810	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hogan, Patrick	3808		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Holdsworth, Rhonda	615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lardy, N.M.	725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Mayne, Elizabeth	8103	53	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
McCluskey, James	3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pancoska, Carol Ph	54		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Permpikul, Vejbaesy	3966	56	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Pule, Ziningi	8058	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Reed, Elaine F. PhD	3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Sacchi, Nicoletta	8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
V.Brouard, M.Tonye	8048	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Vasilescu, Rodica	786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Vather/JHB,	4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Vather/Pinetown,	8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Table 25. Individual laboratory results for Serum #1233 by Luminex - class I, cont.**

		**** Serum 1233 ****																							
Investigator	Ctr	Cw4	A66	B53	Cw17	B27	B2708	A33	Bw6	Cw15	A6601	A3	A1101	A1102	B8101	Cw2	A68	B3901	B52	B46	B8201	B703	B7801	Other	
Al-Attas, Rabab A. M	8062	+	+	+	+	+			+	+															A*24:02
Arnold, Paula PhD	5462	+	+			+	+				+		+	+	+			+				+		+	A*68:01,A*66:02,A*24:02
Bengochea, Carrette	8045		+				+											+					+		
Cecka, J. Michael P	774		+			+			+																
Chen, Dong-Feng P	3224	+		+	+		+			+	+		+	+	+							+			
Colombe, Beth w. P	3632	+		+	+		+		+																A6602
Daniel, Dolly	5219		+				+		+				+	+	+			+					+		A9,B15,B70,A10 >
Du, Keming	8086	+	+		+	+																			
Dunckley, Heather	3766	+	+	+	+	+	+	+		+	+		+	+	+			+					+		+
Fort, Marylise	4079	+	+	+	+	+		+		+		+				+	+		+	+					A32,Cw9,Cw8,Cw14 >
Gebel, Howard PhD	5214	+		+			+	+	+		+														
Hahn, Amy B. PhD	910	+	+	+	+	+		+	+																
Hamdi, Nuha	810	+	+	+	+	+		+		+		+				+	+		+						Cw8,Cw14
Hogan, Patrick	3808	+	+	+		+			+		+		+	+	+									+	
Holdsworth, Rhonda	615	+	+	+	+	+	+	+		+	+	+				+									
Lardy, N.M.	725		+				+																		
Mayne, Elizabeth	8103		+	+		+	+		+		+		+	+	+			+					+	+	B40,B15,B14
McCluskey, James	3582	+		+	+		+	+		+	+	+				+	+		+	+					A6602,A*68:02
Pancoska, Carol Ph	54	+	+	+	+		+	+																	
Permpikul, Vejbaesy	3966	+	+		+	+																			
Pule, Ziningi	8058	+	+	+	+	+		+	+	+		+						+							Bw4
Reed, Elaine F. PhD	3753	+		+	+		+		+		+														A*24:02
Sacchi, Nicoletta	8100	+	+	+	+	+		+	+		+					+									
V.Brouard, M.Tonye	8048	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B40,Cw9,A2403
Vasilescu, Rodica	786	+			+		+				+		+	+	+							+		+	
Vather/JHB,	4322	+	+	+	+	+	+	+	+	+		+				+	+		+	+					
Vather/Pinetown,	8082	+	+	+	+	+	+	+	+	+		+				+	+		+	+					B44,Cw8,Cw14,Cw12

**Table 26. Individual laboratory results for Serum #1234 by Luminex - class I**

		**** Serum 1234 ****																												
Investigator	Ctr	% POS	A1	A2	A25	A26	A3	A31	A33	A34	A36	A43	A68	A69	A74	A80	A30	A29	A11	A66	A24	A2403	A6601	A6602	A203	A1101	A1102	Other	Method	
Al-Attas, Rabab A. M	8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX
Arnold, Paula PhD	5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Bengochea, Carrette	8045	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+				LMX
Cecka, J. Michael P	774	93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Chen, Dong-Feng P	3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+			LMX
Colombe, Beth w. P	3632	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Daniel, Dolly	5219	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+			A10,A19,A28,A1C >	LMX
Du, Keming	8086	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Dunckley, Heather	3766	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		LMX
Fort, Marylise	4079		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Gebel, Howard PhD	5214	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+					LMX
Hahn, Amy B. PhD	910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+							LMX
Hamdi, Nuha	810	85	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Hogan, Patrick	3808		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+		LMX
Holdsworth, Rhonda	615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
Lardy, N.M.	725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Mayne, Elizabeth	8103	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+		LMX
McCluskey, James	3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+							LMX
Pancoska, Carol Ph	54		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Permpikul, Vejbaesy	3966	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Pule, Ziningi	8058	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Reed, Elaine F. PhD	3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Sacchi, Nicoletta	8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
V.Brouard, M.Tonye	8048	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+		LMX
Vasilescu, Rodica	786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+		LMX
Vather/JHB,	4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Vather/Pinetown,	8082	NT																												LMX





**Table 28. Individual laboratory results for Serum #1236 by Luminex - class I**

**** Serum 1236 ****																																																																		
Investigator	Ctr	% POS	A2	A68	A69	B35	B46	B49	B50	B52	B53	B56	B57	B58	B62	B63	B71	B72	B75	B76	B77	Cw6	Cw2	B13	B55	Cw15	Cw17	Cw18	Cw4	Cw5	A74	B44	B51	A24	A3	A32	B45	A29	B78	A11	Cw12	A31	A23	B27	B67	A34	B38																			
Al-Attas, Rabab A. M	8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+														
Arnold, Paula PhD	5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										
Bengochea, Carretr	8045	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
Cecka, J. Michael P	774	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
Chen, Dong-Feng P	3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
Colombe, Beth w. P	3632	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
Daniel, Dolly	5219	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										
Du, Keming	8086	70	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								
Dunckley, Heather	3766	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Fort, Marylise	4079		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Gebel, Howard PhD	5214	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Hahn, Amy B. PhD	910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Hamdi, Nuha	810	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Hogan, Patrick	3808		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Holdsworth, Rhonda	615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Lardy, N.M.	725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Mayne, Elizabeth	8103	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
McCluskey, James	3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Pancoska, Carol Ph	54		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Permpikul, Vejbaes	3966	41	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Pule, Ziningi	8058	92	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Reed, Elaine F. PhD	3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Sacchi, Nicoletta	8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
V.Brouard, M.Tonye	8048	75	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Vasilescu, Rodica	786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Vather/JHB,	4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Vather/Pinetown,	8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Table 28. Individual laboratory results for Serum #1236 by Luminex - class I, cont.**

		**** Serum 1236 ****																																	
Investigator	Ctr	Cw10	A30	B54	Cw9	A25	B64	A33	A43	B41	B42	B59	B39	A66	A2403	B18	B37	B48	A1101	A203	A26	B2708	A1102	B47	B65	B61	A6602	B7	B7801	B81	Bw4	Cw403	Other	Method	
Al-Attas, Rabab A. M	8062	+		+	+		+					+	+																						LMX
Arnold, Paula PhD	5462														+				+	+			+												LMX
Bengochea, Carrette	8045														+					+															LMX
Cecka, J. Michael P	774																																		LMX
Chen, Dong-Feng P	3224	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+		+	+				+		+						LMX
Colombe, Beth w. P	3632	+			+																											+			LMX
Daniel, Dolly	5219														+				+	+		+										+	A9,B15,B70,B21	> LMX	
Du, Keming	8086	+	+	+	+	+	+	+	+					+																					LMX
Dunckley, Heather	3766	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+		A6601,B3901	LMX	
Fort, Marylise	4079	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			+				+	+									LMX
Gebel, Howard PhD	5214		+	+		+	+	+	+	+	+	+	+	+		+	+					+					+						A6601	LMX	
Hahn, Amy B. PhD	910		+																																LMX
Hamdi, Nuha	810	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			+			+	+	+									LMX
Hogan, Patrick	3808														+				+	+		+	+									+		LMX	
Holdsworth, Rhonda	615	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			+			+	+	+		+		+					LMX
Lardy, N.M.	725																															+			LMX
Mayne, Elizabeth	8103														+				+	+			+						+			+	B15	LMX	
McCluskey, James	3582	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			+			+	+	+		+		+			B60,B82,A36	LMX	
Pancoska, Carol Ph	54	+	+	+	+	+	+	+	+					+								+													LMX
Permpikul, Vejbaes	3966																																		LMX
Pule, Ziningi	8058	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+			+			+	+	+		+		+	+		B60,B82,A36,B73	LMX	
Reed, Elaine F. PhD	3753																																		LMX
Sacchi, Nicoletta	8100	+																																	LMX
V.Brouard, M.Tonye	8048	+	+	+	+	+		+	+	+	+	+			+	+	+	+	+	+	+	+	+	+		+				+		B14,Bw6,A6601,B	LMX		
Vasilescu, Rodica	786	+	+	+	+	+	+	+	+	+	+				+				+	+		+	+			+		+				B3901		LMX	
Vather/JHB,	4322	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			+			+	+	+		+		+	+				LMX
Vather/Pinetown,	8082	+	+	+	+	+	+	+		+	+	+	+	+				+	+								+	+							LMX

**Table 29. Individual laboratory results for Serum #1233-1236 by NIH-extended, Other, and C1q - class II**

		**** Serum 1233 ****														**** Serum 1234 ****											
Investigator	Ctr	% POS	DQ2													Other	% POS	DQ4	DQ7	DQ8	DQ9	DR1	DR10	DR15	DR4	Other	Method
Reed, Elaine F. PhI	3753	84															89										Ext
Reed, Elaine F. PhI	3753	27	+														87	+	+	+	+	+	+	+	+		Other

		**** Serum 1235 ****														**** Serum 1236 ****											
Investigator	Ctr	% POS	DQ2	DR11	DR13	DR14	DR17	DR18	DR52							Other	% POS	DQ4	DQ5	DQ6	DQ8	DQ9	DR1	DR4	DR9	Other	Method
Reed, Elaine F. PhI	3753	89															69										Ext
Reed, Elaine F. PhI	3753	63	+	+	+	+	+	+	+								77	+	+	+	+	+	+	+	+		Other

Other = Flow PRA

		**** Serum 1233 ****														**** Serum 1234 ****											
Investigator	Ctr	% POS														Other	% POS	DQ7	DQ8	DQ9	DR4					Other	Method
Colombe, Beth W.	3753	63															18	+	+	+	+						C1q

		**** Serum 1235 ****														**** Serum 1236 ****												
Investigator	Ctr	% POS	DP10	DP14	DP17	DP18	DP20	DP28	DP402	DP9	DPw2	DPw3	DPw6	DR11	DR17	DR18	DR52	Other	% POS	DR4							Other	Method
Colombe, Beth W.	3632	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		7	+								C1q

**Table 30. Individual laboratory results for Serum #1233-1234 by Luminex - class II**

Investigator	**** Serum 1233 ****									**** Serum 1234 ****													Method				
	Ctr	% POS	DQ2	DR7	DP19	DR16	DQ5	DR52	Other	% POS	DQ7	DQ8	DQ9	DR1	DR10	DR4	DQ4	DR14	DR15	DR51	DQA1*03	DQ2		DR13	DP14	DQA1*06	Other
Al-Attas, Rabab A. M	8062		+	+				+	DR9		+	+	+	+	+	+	+	+	+	+	+						LMX
Arnold, Paula PhD	5462		+		+						+	+	+	+	+	+	+	+	+	+	+					DRB5*02:02	LMX
Bengochea, Carrette	8045	6	+	+						39	+	+	+	+	+	+	+	+	+	+	+	+				DR1404,DQ1,DPW4	LMX
Cecka, J. Michael P	774	23	+							74	+	+	+	+	+	+	+	+	+	+	+						LMX
Chen, Dong-Feng P	3224		+	+	+						+	+	+	+	+	+	+	+	+	+	+						LMX
Colombe, Beth W. F	3632	37	+		+					82	+	+	+	+	+	+	+	+	+	+	+						LMX
Daniel, Dolly	5219	5	+							31	+	+	+	+	+	+	+	+	+	+	+		+			DR2,DR6,DR1404,DQ3	LMX
Du, Keming	8086	7	+	+	+					29	+	+	+	+	+	+	+	+	+	+	+		+				LMX
Dunckley, Heather	3766	66	+	+				+	DR18	89	+	+	+	+	+	+	+	+	+	+	+						LMX
Fort, Marylise	4079		+	+	+	+	+	+	DQ6,DP13		+	+	+	+	+	+	+	+	+	+		+		+			LMX
Gebel, Howard PhD	5214	32	+		+				DQA1*01:01	97	+	+	+	+	+	+	+	+	+	+		+					LMX
Hahn, Amy B. PhD	910		+	+							+	+	+	+	+	+	+	+	+	+		+					LMX
Hamdi, Nuha	810	31	+	+			+	+		71	+	+	+	+	+	+	+	+	+	+		+					LMX
Hogan, Patrick	3808		+	+							+	+	+	+	+	+	+	+	+	+							LMX
Holdsworth, Rhonda	615		+	+	+	+	+				+	+	+	+	+	+	+	+	+	+			+	+		DRB5*02:02	LMX
Mayne, Elizabeth	8103	5	+							33	+	+	+	+	+	+	+	+	+	+	+				+	DR1404,DQ3,DQA1*04	LMX
McCluskey, James	3582		+	+	+						+	+	+	+	+	+	+	+	+	+		+			DQA1*03:01	LMX	
Pancoska, Carol Ph	54		+	+	+						+	+	+	+	+	+	+	+	+	+							LMX
Permpikul, Vejbaesy	3966	6	+		+				DQA1*05	33	+	+	+	+	+	+	+	+	+	+	+				+	DQA1*05	LMX
Pule, Ziningi	8058	8	+	+			+			35	+	+	+	+	+	+	+	+	+	+		+	+				LMX
Reed, Elaine F. PhD	3753		+		+						+	+	+	+	+	+	+	+	+	+						DRB5*02:02	LMX
Sacchi, Nicoletta	8100		+	+	+	+	+		DQ6		+	+	+	+	+	+	+	+	+	+		+					LMX
V.Brouard, M.Tonye	8048	31	+	+	+	+			DQA1*01,DQA1*02	80	+	+	+	+	+	+	+	+	+	+	+						LMX
Vather/JHB,	4322		+	+	+	+			DQA1*01,DQA1*04,DQA1*05		+	+	+	+	+	+	+	+	+	+		+	+			DR103,DR8,DR16,DR17 >	LMX
Vather/Pinetown,	8082		+	+	+	+	+	+	DQA1*01,DQA1*05		+	+	+	+	+	+	+	+	+	+		+	+	+		DR103,DR8,DR9,DR16 >	LMX

**Table 31. Individual laboratory results for Serum #1235 by Luminex - class II**

		**** Serum 1235 ****																										
Investigator	Ctr	% POS	DR11	DR13	DR14	DR17	DR18	DPw2	DPw3	DPw6	DR52	DR7	DQ2	DP18	DP28	DP14	DP17	DP9	DP10	DP20	DP402	DPw4	DQA1*05	DR1403	Other	Method		
Al-Attas, Rabab A. M	8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX	
Arnold, Paula PhD	5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX	
Bengochea, Carrette	8045	31	+	+	+	+	+	+	+	+	+	+	+										+	+			LMX	
Cecka, J. Michael P	774	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX	
Chen, Dong-Feng P	3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX	
Colombe, Beth W. F	3632	78	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DR16		LMX	
Daniel, Dolly	5219	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+		+	DR3,DR5,DR6		LMX	
Du, Keming	8086	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX	
Dunckley, Heather	3766	78	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
Fort, Marylise	4079		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX	
Gebel, Howard PhD	5214	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX	
Hahn, Amy B. PhD	910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX	
Hamdi, Nuha	810	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				DQ7		LMX	
Hogan, Patrick	3808		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	DR3		LMX	
Holdsworth, Rhonda	615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DPB1*04:02		LMX	
Mayne, Elizabeth	8103	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+		+	DR3		LMX	
McCluskey, James	3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	DQA1*05:05		LMX	
Pancoska, Carol Ph	54		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX	
Permpikul, Vejbaesy	3966	35	+	+	+	+	+	+	+	+	+			+	+					+	+					DPA1*01,DPA1*04		LMX
Pule, Ziningi	8058	39	+	+	+	+	+					+	+													DQ7		LMX
Reed, Elaine F. PhD	3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
Sacchi, Nicoletta	8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
V.Brouard, M.Tonye	8048	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX
Vather/JHB,	4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	DR16,DPA1*01,DPA1*04		LMX
Vather/Pinetown,	8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	DR15,DR16,DPA1*01,DPA1*04		LMX

**Table 32. Individual laboratory results for Serum #1236 by Luminex - class II**

		**** Serum 1236 ****																					
Investigator	Ctr	% POS	DQ4	DQ8	DQ9	DR1	DR4	DR9	DQ6	DR53	DQ5	DR7	DQA1*03	DR14	DR10	DQ2	DR51	DR15	DQ7	DQA1*01	Other	Method	
Al-Attas, Rabab A. M	8062		+	+	+	+	+	+	+	+	+	+	+	+	+		+						LMX
Arnold, Paula PhD	5462		+	+	+	+	+	+	+	+	+	+	+	+									LMX
Bengochea, Carrette	8045	35	+	+	+	+	+	+	+	+	+	+				+			+				LMX
Cecka, J. Michael P	774	89	+	+	+	+	+	+	+	+	+	+				+							LMX
Chen, Dong-Feng P	3224		+	+	+	+	+	+	+	+	+	+	+	+		+							LMX
Colombe, Beth W. F	3632	85	+	+	+	+	+	+	+	+	+	+	+										LMX
Daniel, Dolly	5219	32	+	+	+	+	+	+	+	+		+										DQ3	LMX
Du, Keming	8086	33	+	+	+	+	+	+	+	+	+			+		+				+			LMX
Dunckley, Heather	3766	93	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Fort, Marylise	4079		+	+	+	+	+	+	+	+	+	+											LMX
Gebel, Howard PhD	5214	99	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Hahn, Amy B. PhD	910		+	+	+	+	+	+	+	+	+	+	+		+								LMX
Hamdi, Nuha	810	89	+	+	+	+	+	+	+	+	+	+		+	+	+	+		+				LMX
Hogan, Patrick	3808		+	+	+	+	+	+	+	+	+	+											LMX
Holdsworth, Rhonda	615		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+					LMX
Mayne, Elizabeth	8103	33	+	+	+	+	+	+	+	+	+	+	+								+	DQ3,DQA1*04	LMX
McCluskey, James	3582		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+				DRB5*02:02	LMX
Pancoska, Carol Ph	54		+	+	+	+	+	+	+	+	+	+	+	+									LMX
Permpikul, Vejbaesy	3966	31	+	+	+	+	+	+	+	+	+	+	+								+		LMX
Pule, Ziningi	8058	45	+	+	+	+	+	+			+	+		+	+	+		+	+				LMX
Reed, Elaine F. PhD	3753		+	+	+	+	+	+	+	+	+	+										DRB1*14:02,DQA1*03:01	LMX
Sacchi, Nicoletta	8100		+	+	+	+	+	+	+	+	+	+		+	+	+	+		+				LMX
V.Brouard, M.Tonye	8048	89	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Vather/JHB,	4322		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+		DP13,DP23	LMX
Vather/Pinetown,	8082		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+		DP23	LMX

**Table 33. Summary of the 561st Serum Exchange (Serum #1237-1240) by NIH-Standard and NIH-Extended - class I**

Method: NIH-Standard											
<b>*** Serum 1237 ***</b>			<b>*** Serum 1238 ***</b>			<b>*** Serum 1239 ***</b>			<b>*** Serum 1240 ***</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
B27	50%	100%	B27	100%	100%	B44	100%	100%	B44	100%	100%
B7	50%	100%	B7	100%	100%	B60	100%	100%	B45	50%	100%
			B13	50%	100%	B61	100%	100%			
						B7	100%	100%			
						B13	50%	100%			
						B45	50%	100%			
						B49	50%	100%			
						B50	50%	100%			

  

Method: NIH-Extended											
<b>*** Serum 1237 ***</b>			<b>*** Serum 1238 ***</b>			<b>*** Serum 1239 ***</b>			<b>*** Serum 1240 ***</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
B13	50%	100%	B27	50%	100%	B41	100%	100%	B44	100%	100%
B27	50%	100%	B47	50%	100%	B44	100%	100%	B45	100%	100%
B47	50%	100%	B7	50%	78%	B49	100%	100%	B49	100%	100%
						B50	100%	100%	B50	100%	100%
						B60	100%	100%	B62	100%	100%
						B45	100%	67%	B71	50%	100%
						B13	50%	100%	B72	50%	100%
						B61	50%	100%	B35	50%	86%
						B7	50%	56%			



**Table 34. Summary of the 561st Serum Exchange (Serum #1237-1240) by Antiglobulin and Other - class I**

Method: Antiglobulin											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B27	100%	100%	B27	100%	100%	B13	100%	100%	B44	100%	100%
B47	67%	100%	B7	100%	100%	B27	100%	100%	B45	100%	100%
B53	67%	100%	B13	67%	100%	B45	100%	100%	B49	67%	100%
B60	67%	100%	B37	67%	100%	B49	100%	100%	B50	67%	100%
B51	67%	86%	B42	67%	100%	B50	100%	100%	B62	67%	100%
A24	33%	100%	B44	67%	100%	B60	100%	100%	B70	67%	100%
A25	33%	100%	B47	67%	100%	B61	100%	100%	B72	67%	100%
A28	33%	100%	B55	67%	100%	B7	100%	100%	B75	67%	100%
A32	33%	100%	B60	67%	100%	B44	100%	89%	B46	33%	100%
A68	33%	100%	A23	33%	100%	B41	67%	100%	B41	33%	50%
B7	33%	100%	A24	33%	100%	B47	67%	100%	B52	33%	33%

Method: Other											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A2	50%	100%	B13	50%	100%	B13	50%	100%	B13	50%	100%
A23	50%	100%	B27	50%	100%	B27	50%	100%	B18	50%	100%
A24	50%	100%	B42	50%	100%	B41	50%	100%	B35	50%	100%
A25	50%	100%	B47	50%	100%	B44	50%	100%	B41	50%	100%
A26	50%	100%	B48	50%	100%	B45	50%	100%	B44	50%	100%
A32	50%	100%	B55	50%	100%	B47	50%	100%	B45	50%	100%
A34	50%	100%	B56	50%	100%	B48	50%	100%	B48	50%	100%
A66	50%	100%	B60	50%	100%	B49	50%	100%	B49	50%	100%
A68	50%	100%	B61	50%	100%	B50	50%	100%	B50	50%	100%
B13	50%	100%	B67	50%	100%	B60	50%	100%	B60	50%	100%
B27	50%	100%	B7	50%	100%	B61	50%	100%	B61	50%	100%
B42	50%	100%	B81	50%	100%	B7	50%	100%	B62	50%	100%
B44	50%	100%							B63	50%	100%
B60	50%	100%							B71	50%	100%
B61	50%	100%							B72	50%	100%
B7	50%	100%							B75	50%	100%
B8	50%	100%									
B81	50%	100%									

**Table 35. Summary of the 561st Serum Exchange (Serum #1237-1240) by C1q and Flow Cytometry - class I**

Method: C1q											
<b>*** Serum 1237 ***</b>			<b>*** Serum 1238 ***</b>			<b>*** Serum 1239 ***</b>			<b>*** Serum 1240 ***</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
B7	100%	100%	A32	100%	100%	B13	100%	100%	NEG	50%	100%
B27	50%	100%	B27	100%	100%	B27	100%	100%			
			B37	100%	100%	B41	100%	100%			
			B47	100%	100%	B44	100%	100%			
			B7	100%	100%	B45	100%	100%			
			B73	100%	100%	B47	100%	100%			
			B81	100%	100%	B48	100%	100%			
			B13	50%	100%	B49	100%	100%			
			B42	50%	100%	B50	100%	100%			
			B44	50%	100%	B60	100%	100%			
			B48	50%	100%	B61	100%	100%			
			B54	50%	100%	B7	100%	100%			
			B55	50%	100%	B73	100%	100%			
			B56	50%	100%	B81	100%	100%			
			B60	50%	100%	Cw17	100%	100%			
			B61	50%	100%	Cw2	100%	100%			
			B67	50%	100%	A66	50%	100%			
			B82	50%	100%	A6602	50%	100%			

  

Method: Flow Cytometry											
<b>*** Serum 1237 ***</b>			<b>*** Serum 1238 ***</b>			<b>*** Serum 1239 ***</b>			<b>*** Serum 1240 ***</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 36. Summary of the 561st Serum Exchange (Serum #1237-1240) by Luminex - class I**

Method: Luminex											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
28 typing Labs			28 typing Labs			28 typing Labs			26 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A24	100%	100%	A32	100%	100%	B13	100%	100%	B35	100%	100%
A25	100%	100%	B13	100%	100%	B27	100%	100%	B38	100%	100%
A32	100%	100%	B27	100%	100%	B41	100%	100%	B41	100%	100%
A68	100%	100%	B37	100%	100%	B44	100%	100%	B44	100%	100%
B13	100%	100%	B38	100%	100%	B45	100%	100%	B45	100%	100%
B27	100%	100%	B41	100%	100%	B47	100%	100%	B49	100%	100%
B37	100%	100%	B42	100%	100%	B48	100%	100%	B50	100%	100%
B38	100%	100%	B44	100%	100%	B49	100%	100%	B53	100%	100%
B44	100%	100%	B47	100%	100%	B50	100%	100%	B62	100%	100%
B47	100%	100%	B49	100%	100%	B60	100%	100%	B72	100%	100%
B57	100%	100%	B50	100%	100%	B61	100%	100%	B76	100%	100%
B60	100%	100%	B54	100%	100%	B7	100%	100%	B77	100%	100%
B61	100%	100%	B55	100%	100%	B73	100%	100%	B13	96%	100%
B7	100%	100%	B56	100%	100%	B62	100%	80%	B18	96%	100%
B73	100%	100%	B60	100%	100%	Cw2	100%	78%	B47	96%	100%
B63	100%	80%	B61	100%	100%	B67	96%	100%	B51	96%	100%
A2	96%	100%	B62	100%	100%	Cw17	96%	100%	B52	96%	100%
A23	96%	100%	B64	100%	100%	B55	93%	100%	B60	96%	100%
A33	96%	100%	B67	100%	100%	B81	89%	100%	B61	96%	100%
A34	96%	100%	B7	100%	100%	Cw10	86%	100%	B71	96%	100%
A69	96%	100%	B71	100%	100%	Cw9	86%	100%	B75	96%	100%
B42	96%	100%	B72	100%	100%	B38	86%	40%	B78	92%	100%
B49	96%	100%	B73	100%	100%	B42	82%	100%	B37	88%	100%
B51	96%	100%	B76	100%	100%	B72	82%	80%	B48	88%	100%
B52	96%	100%	A24	96%	100%	B37	75%	100%	B56	88%	100%
B53	96%	100%	B18	96%	100%	B39	75%	100%	B64	88%	100%
B55	96%	100%	B48	96%	100%	B46	75%	75%	B63	88%	80%
B58	96%	100%	Cw2	96%	100%	B76	71%	67%	B59	88%	75%
B67	96%	100%	Cw5	96%	100%	A66	71%	50%	B39	81%	100%
B77	96%	100%	Cw6	96%	93%	B57	68%	100%	B57	81%	62%
B59	96%	75%	B65	96%	60%	Cw15	68%	100%	B58	77%	75%
B41	93%	100%	B45	93%	100%	B71	68%	75%	B65	73%	60%
B48	93%	100%	B77	93%	100%	B59	64%	100%	B8	69%	100%
B56	93%	75%	Cw15	93%	100%	Cw5	61%	100%	B46	69%	75%
A66	89%	100%	Cw18	93%	100%	Cw8	61%	100%	B82	42%	100%

**Table 36. Summary of the 561st Serum Exchange (Serum #1237-1240) by Luminex - class I**

Method: Luminex-cont.											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
27 typing Labs			27 typing Labs			27 typing Labs			26 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B54	86%	100%	B35	93%	83%	A6602	57%	100%	B3901	27%	100%
B81	86%	100%	B59	89%	100%	Cw1	57%	100%	B7801	19%	100%
A26	82%	100%	Cw17	89%	100%	Cw16	54%	100%	Cw5	15%	100%
Cw7	82%	96%	Cw4	89%	100%	B56	50%	100%	Cw9	15%	100%
B8	82%	83%	B52	89%	80%	Cw18	50%	100%	Cw10	15%	50%
B82	79%	100%	A23	86%	100%	B2708	43%	100%			
B39	75%	100%	B39	86%	100%	Cw12	32%	100%			
A29	54%	100%	B81	86%	100%	B63	25%	100%			
Cw17	54%	100%	B82	86%	100%	B8101	25%	100%			
B2708	43%	100%	B75	86%	71%	Cw14	25%	100%			
A30	39%	50%	B53	86%	67%	A68	21%	100%			
A2403	32%	100%	B51	82%	100%	A74	18%	100%			
A43	32%	100%	B8	82%	83%	A2	14%	100%			
B45	32%	100%	A25	64%	100%	B3901	14%	100%			
A31	29%	100%	Cw1	54%	100%						
A6602	29%	100%	A6602	46%	100%						
B8101	29%	100%	B78	46%	100%						
Bw4	29%	100%	B2708	43%	100%						
A203	25%	100%	A2403	36%	100%						
A6601	25%	100%	B8101	29%	100%						
A74	25%	100%	Cw8	29%	100%						
B18	25%	100%	A66	29%	50%						
B76	21%	100%	B3901	25%	100%						
B8201	21%	100%	B8201	25%	100%						
Cw2	21%	100%	Cw16	21%	100%						
			A74	18%	100%						
			Cw12	14%	100%						

**Table 37. Summary of the 561st Serum Exchange (Serum #1237-1240) by various methods - class II**

Method: NIH-Extended											
<b>*** Serum 1237 ***</b>			<b>*** Serum 1238 ***</b>			<b>*** Serum 1235 ***</b>			<b>*** Serum 1236 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

Method: Other											
<b>*** Serum 1237 ***</b>			<b>*** Serum 1238 ***</b>			<b>*** Serum 1235 ***</b>			<b>*** Serum 1236 ***</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
NEG	100%	100%	DQ7	50%	100%	NEG	100%	100%	no specificities assigned		
			DQ8	50%	100%						
			DQ9	50%	100%						
			DR10	50%	100%						
			DR4	50%	100%						
			DR7	50%	100%						
			DR9	50%	100%						

Method: C1q											
<b>*** Serum 1237 ***</b>			<b>*** Serum 1238 ***</b>			<b>*** Serum 1235 ***</b>			<b>*** Serum 1236 ***</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 1237 ***</b>			<b>*** Serum 1238 ***</b>			<b>*** Serum 1235 ***</b>			<b>*** Serum 1236 ***</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
NEG	67%	100%	no specificities assigned			NEG	100%	100%	no specificities assigned		

**Table 38. Summary of the 561st Serum Exchange (Serum #1237-1240) by Luminex - class II**

Method: Luminex											
*** Serum 1237 ***			*** Serum 1238 ***			*** Serum 1239 ***			*** Serum 1240 ***		
15 typing Labs			24 typing Labs			20 typing Labs			22 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NEG	93%	100%	DQ7	100%	100%	DP11	55%	50%	DR103	77%	100%
DQ5	7%	100%	DQ8	100%	100%	DQ7	10%	100%	DR51	77%	100%
			DQ9	100%	100%	DPA1*02	5%	100%	DR7	77%	75%
			DR4	100%	100%	DPw5	5%	100%	DR1	68%	100%
			DR53	100%	100%	DQ4	5%	100%	DR9	55%	100%
			DR9	100%	100%				DR53	45%	100%
			DR7	96%	100%				DR10	33%	100%
			DR14	96%	80%				DQ6	17%	17%
			DR10	83%	100%				DP11	13%	100%
			DQ4	58%	50%				DP13	13%	100%
			DR1	54%	100%				DP14	13%	100%
			DQA1*05	50%	100%				DP18	13%	100%
			DQ2	46%	40%				DP9	13%	100%
			DQA1*04	38%	100%				DPA1*01	13%	100%
			DQA1*03	33%	100%				DPA1*03	13%	100%
			DQA1*06	29%	100%				DPw1	13%	100%
			DQA1*02	17%	100%				DPw2	13%	100%
			DR12	17%	100%				DPw3	13%	100%
			DR51	17%	100%				DPw4	13%	100%
			DR103	13%	100%				DPw5	13%	100%
			DQ3	8%	100%				DPw6	13%	100%
			DR1404	8%	100%				DP15	9%	100%
			DR13	4%	100%				DP19	9%	100%
			DR52	4%	100%				DPA1*04	9%	100%
									DR4	9%	100%
									DP401	4%	100%
									DP402	4%	100%
									DQ2	4%	100%
									DQ4	4%	100%
									DQ5	4%	100%
									DQ7	4%	100%
									DQ8	4%	100%
									DQ9	4%	100%
									DQA1*01	4%	100%
									DR15	4%	100%
									DR52	4%	100%

**Table 39. Individual laboratory results for Serum #1237-1240 by NIH-Standard and NIH-Extended - class I**

Investigator	**** Serum 1237 ****					**** Serum 1238 ****					**** Serum 1239 ****							**** Serum 1240 ****						Method			
	Ctr	% POS	B27	B7	Other	Ctr	% POS	B27	B7	B13	Other	Ctr	% POS	B44	B60	B61	B7	B45	B49	Other	Ctr	% POS	B44		B45	Other	
McCluskey, James	3582	19	+			3582	44	+	+			3582	53	+	+	+	+				3582	28	+				STD
Vasilescu, Rodica	786	8		+		786	12	+	+	+		786	42	+	+	+	+			B50,B13	786	20	+	+			STD

Investigator	**** Serum 1237 ****					**** Serum 1238 ****					**** Serum 1239 ****							**** Serum 1240 ****						Method						
	Ctr	% POS	B13	B27	B47	Other	Ctr	% POS	B27	B47	B7	Other	Ctr	% POS	B41	B44	B49	B50	B60	B45	Other	Ctr	% POS		B44	B45	B49	B50	B62	Other
Lardy, N.M.	725	24	+	+	+		725	35	+	+	+		725	61	+	+	+	+	+	+	B7	725	53	+	+	+	+	+	B35	EXT
Reed, Elaine F. PhD	3753	3					3753	3					3753	45	+	+	+	+	+	+	B61,B13	3753	37	+	+	+	+	+	B71,B72	EXT

**Table 40. Individual laboratory results for Serum #1237-1240 by Antiglobulin and Other - class I**

**** Serum 1237 ****														**** Serum 1238 ****														
Investigator	Ctr	% POS	B27	B47	B53	B60	B51	B7						Other	Ctr	% POS	B27	B7	B13	B37	B42	B44	B47	B55	B60		Other	Method
Cecka, J. Michael P	774	85	+	+	+	+	+							A24,B49,B13,B44 >	774	80	+	+	+	+	+	+	+	+	+		A24,B50,B56,A32 >	Antiglobulin
Hahn, Amy B. PhD	910		+	+	+	+	+								910		+	+			+	+	+	+	+		B72	Antiglobulin
Vasilescu, Rodica	786	15	+					+							786	17	+	+	+	+								Antiglobulin

**** Serum 1239 ****														**** Serum 1240 ****													
Investigator	Ctr	% POS	B13	B27	B45	B49	B50	B60	B61	B7	B44	B41	B47	Other	Ctr	% POS	B44	B45	B49	B50	B62	B70	B72	B75		Other	Method
Cecka, J. Michael P	774	56	+	+	+	+	+	+	+	+	+	+	+	B48,B81	774	50	+	+	+	+	+	+	+	+		B52,B41	Antiglobulin
Hahn, Amy B. PhD	910		+	+	+	+	+	+	+	+	+	+	+		910		+	+	+	+	+	+	+	+		B46	Antiglobulin
Vasilescu, Rodica	786	83	+	+	+	+	+	+	+	+	+				786	12	+	+									Antiglobulin

**** Serum 1237 ****														**** Serum 1238 ****														
Investigator	Ctr	% POS	A2	A23	A24	A25	A26	A32	A34	A66	A68	B13	B7	Other	Ctr	% POS	B13	B27	B42	B47	B48	B55	B56	B60	B61	B67	Other	Method
Liu, Chang MD, PhD	2400	98													2400	96												Other
Reed, Elaine F. PhD	3753	88	+	+	+	+	+	+	+	+	+	+	+	B60,B61,B44,B27 >	3753	78	+	+	+	+	+	+	+	+	+	+	B7,B81	Other

**** Serum 1239 ****														**** Serum 1240 ****														
Investigator	Ctr	% POS	B13	B27	B41	B44	B45	B47	B48	B49	B50	B60	B7	Other	Ctr	% POS	B13	B18	B35	B41	B44	B45	B48	B49	B50	B60	Other	Method
Liu, Chang MD, PhD	2400	75													2400	93												Other
Reed, Elaine F. PhD	3753	60	+	+	+	+	+	+	+	+	+	+	+	B61	3753	66	+	+	+	+	+	+	+	+	+	+	B61,B62,B75,B63 >	Other



**Table 41. Individual laboratory results for Serum #1237-1240 by C1q and Flow Cytometry - class I**

**** Serum 1237 ****														**** Serum 1238 ****											
Investigator	Ctr	% POS	B7	B27	Other									Other	Ctr	% POS	A32	B27	B37	B47	B7	B73	B81	Other	Method
Colombe, Beth W. F	3632	3	+	+											3632	23	+	+	+	+	+	+	+	B60,B61,B48,B13 >	C1q
Liu, Chang MD, PhD	2400		+												2400		+	+	+	+	+	+	+		C1q

**** Serum 1239 ****																	**** Serum 1240 ****											
Investigator	Ctr	% POS	B13	B27	B41	B44	B45	B47	B48	B49	B50	B60	B61	B7	B73	B81	Cw17	Cw2	Other	Ctr	% POS						Other	Method
Colombe, Beth W. F	3632	22	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A6602	3632	0							C1q
Liu, Chang MD, PhD	2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66	2400								C1q

**** Serum 1237 ****														**** Serum 1238 ****											
Investigator	Ctr	% POS											Other	Ctr	% POS									Other	Method
Chen, Dong-Feng P	3224	92												3224	100										FC
Gebel, Howard PhD	5214	96												5214	99										FC
Marino, Susana R.	8067	93												8067	93										FC

**** Serum 1239 ****														**** Serum 1240 ****											
Investigator	Ctr	% POS											Other	Ctr	% POS									Other	Method
Chen, Dong-Feng P	3224	90												3224	96										FC
Gebel, Howard PhD	5214	89												5214	96										FC
Marino, Susana R.	8067	90												8067	98										FC

FC = Flow Cytometry





**Table 44. Individual laboratory results for Serum #1239 Luminex - class I**

		**** Serum 1239 ****																																																		
Investigator	Ctr	% POS	B13	B27	B41	B44	B45	B47	B48	B49	B50	B60	B61	B7	B73	B62	Cw2	B67	Cw17	B55	B81	Cw10	Cw9	B38	B42	B72	B37	B39	B46	B76	A66	B57	Cw15	B71	B59	Cw5	Cw8	A6602	CW1	CW16	B56	CW18	B2708	Other	Method							
Al-Atlas, Rabab	8062	Multi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63	LMX			
Arnold, Paula Pl	5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B3901	LMX			
Bengochea, Car	8045	25	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,Cw7	LMX		
Cecka, J. Micha	774	67	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Chen, Dong-Fer	3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,Cw12	LMX			
Colombe, Beth	3632	90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Daniel, Dolly	5219	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B21,B703 >	LMX			
Du, Keming	8086	40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Dunckley, Heatr	3766	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A74,A68,B63 >	LMX		
Fort, Marylise	4079		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A68,Cw12	LMX		
Gebel, Howard	5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B70	LMX		
Hahn, Amy B. P	910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A68	LMX		
Hamdi, Nuha	810	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw14,Cw12	LMX		
Hogan, Patrick	3808	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101	LMX		
Holdsworth, Rho	615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,B75,A74,A68 >	LMX		
Lardy, N.M.	725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Liu, Chang MD,	2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Mayne, Elizabet	8103	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B703,B8101 >	LMX		
McCluskey, Jam	3582		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,B75,A25,A31 >	LMX		
Pancoska, Caro	54	78	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Permpikul, Vejb	3966	47	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63	LMX		
Pule, Ziningi	8058	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A74,Cw14,Cw12	LMX	
Reed, Elaine F.	3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Sacchi, Nicoletta	8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B12C,B7C	LMX		
V.Brouard, M.Tc	8048	64	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B3901	LMX	
Vasilescu, Rodic	786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,B3901	LMX	
Vather/JHB,	4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A74,A68,A69 >	LMX	
Vather/Pinetowr	8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63,Cw14,Cw12	LMX



**Table 46. Individual laboratory results for Serum #1240 by various methods - class II**

	**** Serum 1237 ****				**** Serum 1238 ****								**** Serum 1239 ****				**** Serum 1240 ****				
Investigator	Ctr	% POS		Other	Ctr	% POS							Other	Ctr	% POS			Other	Method		
Reed, Elaine F. PhD	3753	25			3753	9								3753	55				3753	77	Ext

	**** Serum 1237 ****				**** Serum 1238 ****								**** Serum 1239 ****				**** Serum 1240 ****							
Investigator	Ctr	% POS		Other	Ctr	% POS	DQ7	DQ8	DQ9	DR10	DR4	DR7	DR9	Other	Ctr	% POS			Other	Ctr	% POS		Other	Method
Liu, Chang MD, PhD	2400	0			2400	80									2400	0				2400	26			Other
Reed, Elaine F. PhD	3753	0			3753	80	+	+	+	+	+	+	+		3753	0				3753	7			Other

Other = Flow PRA

	**** Serum 1237 ****				**** Serum 1238 ****								**** Serum 1239 ****				**** Serum 1240 ****							
Investigator	Ctr	% POS		Other	Ctr	% POS							Other	Ctr	% POS			Other	Ctr	% POS		Other	Method	
Colombe, Beth W.	3632	0			3632	0									3632	0				3632	0			C1q

	**** Serum 1237 ****				**** Serum 1238 ****								**** Serum 1239 ****				**** Serum 1240 ****							
Investigator	Ctr	% POS		Other	Ctr	% POS							Other	Ctr	% POS			Other	Ctr	% POS		Other	Method	
Chen, Dong-Feng P	3224	0			3224	86									3224	0				3224	65			FC
Gebel, Howard PhD	5214	13			5214	75									5214	0				5214	61			FC
Marino, Susana R.	8067	0			8067	68									8067	0				8067	62			FC

FC = Flow Cytometry

**Table 47. Individual laboratory results for Serum #1237-1238 Luminex - class II**

**** Serum 1237 ****					**** Serum 1238 ****																			
Investigator	Ctr	% POS	DQ5	Other	% POS	DQ7	DQ8	DQ9	DR4	DR53	DR9	DR7	DR14	DR10	DQ4	DR1	DQA1*05	DQ2	DQA1*04	DQA1*03	DQA1*06	Other	Method	
Al-Attas, Rabab A. M	8062	0			Multi	+	+	+	+	+	+	+	+	+	+	+		+				DR103,DR12,DR13,DR51 >	LMX	
Arnold, Paula PhD	5462					+	+	+	+	+	+	+	+	+			+							LMX
Bengochea, Carrette	8045	0			24	+	+	+	+	+	+	+	+		+			+				DR1404	LMX	
Cecka, J. Michael P	774	0			71	+	+	+	+	+	+	+	+	+										LMX
Chen, Dong-Feng P	3224					+	+	+	+	+	+	+	+	+		+			+	+	+	+		LMX
Colombe, Beth W. F	3632	0			66	+	+	+	+	+	+	+	+	+			+	+						LMX
Daniel, Dolly	5219	0			18	+	+	+	+	+	+	+	+									DQ3		LMX
Du, Keming	8086				25	+	+	+	+	+			+	+				+						LMX
Dunckley, Heather	3766	0			84	+	+	+	+	+	+	+	+	+	+	+	+		+	+				LMX
Fort, Marylise	4079	0				+	+	+	+	+	+	+	+	+	+	+		+						LMX
Gebel, Howard PhD	5214					+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			LMX
Hahn, Amy B. PhD	910					+	+	+	+	+	+	+	+	+			+		+	+	+	DQA1*02		LMX
Hamdi, Nuha	810	0			71	+	+	+	+	+	+	+	+	+	+	+		+						LMX
Hogan, Patrick	3808	0			25	+	+	+	+	+	+	+	+	+	+	+	+		+					LMX
Holdsworth, Rhonda	615	0				+	+	+	+	+	+	+	+	+	+	+		+				DRB1*15:54, DRB1*14:01		LMX
Liu, Chang MD, PhD	2400					+	+	+	+	+	+	+	+	+			+							LMX
Mayne, Elizabeth	8103	0			19	+	+	+	+	+	+	+	+									DR1404,DQ3		LMX
McCluskey, James	3582					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR103,DR12,DR51,DQA1*02		LMX
Pancoska, Carol Ph	54					+	+	+	+	+	+	+	+	+	+	+		+						LMX
Permpikul, Vejbaes	3966				32	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	DQA1*02		LMX
Pule, Ziningi	8058	1	+		22	+	+	+	+	+								+						LMX
Reed, Elaine F. PhD	3753	0				+	+	+	+	+	+		+			+	+		+	+		DRB1*14:01, DQB1*14:02		LMX
Sacchi, Nicoletta	8100	0				+	+	+	+	+	+	+	+	+	+	+		+						LMX
V.Brouard, M.Tonye	8048	0			71	+	+	+	+	+	+	+	+	+	+	+								LMX
Vather/JHB,	4322					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR103,DR12,DR51,DQA1*02		LMX
Vather/Pinetown,	8082					+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	DR12,DR51		LMX

**Table 48. Individual laboratory results for Serum #1239-1240 Luminex - class II**

Investigator	**** Serum 1239 ****				**** Serum 1240 ****										Method
	Ctr	% POS	DP11	Other	% POS	DR103	DR51	DR7	DR1	DR9	DR53	DR10	DC6	Other	
Al-Attas, Rabab A. M	8062	Multi	+	DQ7	0										LMX
Arnold, Paula PhD	5462		+												LMX
Bengochea, Carrette	8045	0			0										LMX
Cecka, J. Michael P	774	0			11			+							LMX
Chen, Dong-Feng P	3224					+	+	+	+	+					LMX
Colombe, Beth W. F	3632	1	+	DPA1*02	77	+	+		+	+	+				LMX
Daniel, Dolly	5219	1		DPw5	19	+	+	+	+					DPw1,DPw2,DPw3,DPw4 >	LMX
Du, Keming	8086				13	+	+	+	+	+	+	+	+		LMX
Dunckley, Heather	3766	2	+		76	+	+	+	+		+				LMX
Fort, Marylise	4079	0				+	+	+	+	+	+	+			LMX
Gebel, Howard PhD	5214					+	+	+	+						LMX
Hahn, Amy B. PhD	910		+			+	+	+	+	+	+	+			LMX
Hamdi, Nuha	810	31	+		40	+	+	+	+	+	+	+			LMX
Hogan, Patrick	3808	0			43		+	+					+	DQ5,DPw1,DPw2,DPw3 >	LMX
Holdsworth, Rhonda	615		+			+	+	+	+	+	+	+	+	DR4,DQB1*06:01	LMX
Liu, Chang MD, PhD	2400					+									LMX
Mayne, Elizabeth	8103	0			27		+							DPw1,DPw2,DPw3,DPw4 >	LMX
McCluskey, James	3582														LMX
Pancoska, Carol Ph	54		+			+	+	+	+	+					LMX
Permpikul, Vejbaesy	3966	2	+		13	+	+	+	+	+	+	+			LMX
Pule, Ziningi	8058	3		DQ4,DQ7	32	+	+	+	+	+	+	+	+	DR4,DR15,DR52,DQ2 >	LMX
Reed, Elaine F. PhD	3753	0				+		+							LMX
Sacchi, Nicoletta	8100		+		NT										LMX
V.Brouard, M.Tonye	8048	0			29	+	+	+	+	+					LMX
Vather/JHB,	4322		+			+	+	+	+	+	+	+			LMX
Vather/Pinetown,	8082														LMX