

# REPORT OF THE 378<sup>th</sup> CELL EXCHANGE

## FEBRUARY 5, 2014

B-cell Lines	495-498
DNA Extract	597-600
Cells	1509-1512
Serum	1137-1144

### B-cell Line Exchange #248

The results for B-cell Line Exchange #248 are summarized on Table 1 and individual laboratory results reported for each cell are listed in Tables 2-

3. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, [bioinformatics.nmdp.org](http://bioinformatics.nmdp.org).

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**Ter-495.** The consensus type for this Caucasian sample is DRB1\*03:07-DRB1\*13:01-DRB3\*01:01-DRB3\*02:02-DQB1\*06:03-DQB1\*06:09-DQA1\*01:02-DQA1\*01:03-DPB1\*04:01-DPB1\*05:01. Based upon common associations, one likely association in this cell may be DRB1\*03:07-DRB3\*02:02-DQB1\*06:03 (1). The other possible association is DRB1\*13:01-DRB3\*01:01-DQB1\*06:09. DRB1\*13:01-DQB1\*06:09 is observed in Caucasians with, HF=0.00006.

This cell is SCL-116A, studied in the workshops as IHW#9465. It was previously typed in the exchange as Ter 459 (2011), as correctly noted by Hahn, Lopez-Cepero, Mah, and Tiercy. The rare DRB1\*03:07 was assigned by 63% in this present study, a decrease from a detection level of 69% in 2011. DRB1\*03:07 is most similar to DRB1\*03:01:01, differing by a single nucleotide substitution in codon 26 (TTC to TAC) which results in an amino acid change from tyrosine to phenylalanine (1). DRB1\*13:01 was reported by 42%, as the second DRB1 type.

**Ter-496.** The consensus type for this Caucasian sample is DRB1\*07:01-DRB1\*13:02-DRB3\*03:01-DRB4\*03:01N-DQB1\*02:02-DQB1\*06:09-DQA1\*01:02-DQA1\*02:01-DPB1\*05:01-DPB1\*11:01. One likely haplotype in this cell is DRB1\*13:02-DRB3\*03:01-DQB1\*06:09-DQA1\*01:02, as observed in the workshop cell IHW#9460 (same as Ter 480 and Ter 462). The other probable haplotype is DRB1\*07:01-DRB4\*03:01N-DQB1\*02:02-DQA1\*02:01. This same haplotype was observed in the GN017, the reference cell for DRB4\*03:01N (2).

This cell was previously typed as Ter 430 (2009) and Ter 368 (2006), as correctly identified by Hahn, Lopez-Cepero, Mah, and Tiercy. In this present retyping, the assignment of DRB4\*03:01N increased from a detection level of 46% in 2009 to 86%, showing improved detection of this null allele.

## B-cell Line Exchange #249

The results for B-cell Line Exchange #249 are summarized on Table 4 and individual laboratory results reported for each cell are listed in Tables 5 - 6. We would like to express our appreciation to **Helen Bass, Jane Rowlands,**

**and Tracy Rees, Welsh Blood Service, Pontyclun,** for generously providing us with the reference cells examined in this study.

**Ter-497.** The consensus type for this Caucasian sample is DRB1\*01:01-DRB1\*01:03-DQB1\*05:01-DQA1\*01:01-DPB1\*02:01-DPB1\*04:01. From family studies, the haplotypes in this cell are determined to be DRB1\*01:01-DQB1\*05:01-DQA1\*01:01-DPB1\*04:01 and DRB1\*01:03-DQB1\*05:01-DQA1\*01:01-DPB1\*02:01 (3).

This cell is 11845457 (same as 35577), the reference cell for C\*03:11:02 (3). It was previously typed as Ter 387 (2007), as noted by Han, Lopez-Cepero, and Rao. DRB1\*01:03 was assigned by 61%, a decrease from its assignment by 89% in 2007. The decrease may be due to a number of labs (n=9) assigning DRB1\*01:03/39N. DRB1\*01:39N differs from DRB1\*01:03 by a single nucleotide substitution in exon 2 at codon 9 (TGG to TGA), resulting in a premature stop codon.

This sample was also previously typed for class I as extract 381 (2007). The consensus class I typed in 2007 was A\*24:02-B\*15:01-B\*57:01-C\*03:11:02-C\*06:02.

**Ter-498.** The consensus type for this Thai sample is DRB1\*04:06:01-DRB1\*12:02-DRB3\*03:01-DRB4\*01:03-DQB1\*03:02-DQB1\*05:02-

DQA1\*01:02-DQA1\*03:01-DPB1\*02:01-DPB1\*133:01. The likely haplotypes in this cell are DRB1\*04:06-DRB4\*01:03-DQB1\*03:02-DQA1\*03:01 and DRB1\*12:02-DRB3\*03:01-DQB1\*05:02-DQA1\*01:02. The DRB1\*04:06-DQB1\*03:02 and DRB1\*12:02-DQB1\*05:02 associations in this cell are listed in the NMDP Bioinformatics website as being observed exclusively in Asians, with respective frequencies of HF=0.02030 and 0.00291.

This cell was previously studied as Ter 286 (2001) and Ter 172 (1995), as astutely noted by Hahn and Lopez-Cepero. In this present retyping, DRB1\*04:06 was assigned by 58%, a decrease from a detection level of 77% in 2001. Nine labs were unable to resolve DRB1\*04:06 from DRB1\*04:144, which may explain the decrease in the assignment of DRB1\*04:06 in this retyping. DRB1\*04:144 differs from DRB1\*04:06 in exon 2 by a single nucleotide substitution at codon 66 (GAC to GAG), resulting in an amino acid change from aspartic acid to glutamic acid.

This sample was also previously typed for class I as extracts 171 (2001) and 67 (1998). The consensus class I type in 2001 was determined to be A\*02:06-A\*11:01-B\*15:12-B\*51:01-C\*03:04-C\*14:02.

**Table 1: Summary of the 248th B-cell Line Exchange (Ter 495-496)**

<b>TER-495</b>												
	<u>67 LABS - DRB1</u>		<u>45 LABS - DRB3</u>		<u>64 LABS - DQB1</u>		<u>35 LABS - DQA1</u>		<u>29 LABS - DPB1</u>		<u>7 LABS - DPA1</u>	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
DNA Typing	DRB1*03:07	63(42)	DRB3*01:01:02	2 (1)	DQB1*06:03:01	3 (2)	DQA1*01:02:01G	3 (1)	DPB1*04:01:01	7 (2)	DPA1*01:03	86(6)
	DRB1*03:07+	6 (4)	DRB3*01:01	58(26)	DQB1*06:03	45(29)	DQA1*01:02	40(14)	DPB1*04:01:01G	7 (2)	<i>DPA1*01:05</i>	14(1)
	DRB1*03(DR17)	6 (4)	DRB3*01:01/11	4 (2)	<i>DQB1*06:38</i>	2 (1)	DQA1*01:02+	26(9)	DPB1*04:01P	4 (1)		
	DRB1*03	25(17)	DRB3*01	24(11)	DQB1*06:03+	20(13)	DQA1*01	31(11)	DPB1*04:01	73(21)		
			DRB3*+	11(5)	DQB1*06	30(19)			<i>DPB1*63:01</i>	3 (1)		
									DPB1*04:01+	3 (1)		
									DPB1*04	3 (1)		
									DPB1*05:01:01	4 (1)	DPA1*02:01	86(6)
	DRB1*13:01:01	6 (4)	<u>45 LABS - DRB3</u>	%(n)	DQB1*06:09	69(44)	DQA1*01:03	43(15)	DPB1*05:01:01G	14(4)	DPA1*01:11	14(1)
	DRB1*13:01:01G	2 (1)	DRB3*02:02	42(19)	<i>DQB1*06:40</i>	2 (1)	DQA1*01:03/10	26(9)	DPB1*05:01P	10(3)		
	DRB1*13:01	34(23)	DRB3*02:02+	22(10)	DQB1*06:09+	3 (2)	DQA1*01	31(11)	DPB1*05:01	41(12)		
	DRB1*13:01+	25(17)	DRB3*02	24(11)	DQB1*06	27(17)			<i>DPB1*112:01</i>	4 (1)		
	DRB1*13	33(22)	DRB3*+	11(5)					DPB1*05:01/*135:01	24(7)		
									DPB1*05	3 (1)		
Serology	<u>6 LABS - DR</u>		<u>6 LABS - DR</u>		<u>5 LABS - DQ</u>							
	DR17	50(3)	DR52	100(6)	DQ1	83(5)						
	DR3	50(3)			DQ6	17(1)						
	DR13	100(6)										

  

<b>TER-496</b>												
	<u>68 LABS - DRB1</u>		<u>45 LABS - DRB3</u>		<u>65 LABS - DQB1</u>		<u>35 LABS - DQA1</u>		<u>29 LABS - DPB1</u>		<u>7 LABS - DPA1</u>	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
DNA Typing	DRB1*07:01:01	7 (5)	DRB3*03:01	76(34)	DQB1*02:02:01	5 (3)	DQA1*01:02:01G	3 (1)	DPB1*05:01:01	3 (1)	DPA1*02:01	100(7)
	DRB1*07:01:01G	3 (2)	DRB3*03	13(6)	DQB1*02:02	51(33)	DQA1*01:02	40(14)	DPB1*05:01:01G	14(4)		
	DRB1*07:01	47(32)	DRB3*+	11(5)	<i>DQB1*06:09</i>	1 (1)	DQA1*01:02+	26(9)	DPB1*05:01P	10(3)		
	DRB1*07:01+	10(7)			DQB1*02:02+	17(11)	DQA1*01	31(11)	DPB1*05:01	48(14)		
	DRB1*07	31(21)			DQB1*02	26(17)			DPB1*05:01+	21(6)		
	<i>DRB1*13</i>	2 (1)							DPB1*05	3 (1)		
									DPB1*11:01:01	14(4)		
	DRB1*13:02:01	10(7)	<u>28 LABS - DRB4</u>	%(n)	DQB1*06:09:01	1 (1)	DQA1*02:01	74(26)	DPB1*11:01	83(24)		
	DRB1*13:02	44(30)	DRB4*03:01N	86(24)	DQB1*06:09	71(46)	DQA1*02	26(9)	DPB1*11	3 (1)		
	<i>DRB1*13:74</i>	2 (1)	DRB4*03N	3 (1)	<i>DQB1*06:06</i>	1 (1)						
	DRB1*13:02+	15(10)	DRB4*02:01/*03:01N	3 (1)	DQB1*06:09+	3 (2)						
	DRB1*13	29(20)	DRB4*02/*03	3 (1)	DQB1*06	23(15)						
			DRB4*+	3 (1)								
Serology	<u>6 LABS - DR</u>		<u>6 LABS - DR</u>		<u>6 LABS - DQ</u>							
	DR7	100(6)	DR52	100(6)	DQ2	100(6)						
	DR13	100(6)					DQ1	67(4)				
						DQ6	33(2)					

**Table 2: Individual laboratory results for B-cell #495**

Center	Investigator	DRB1		DRB3		DQB1		DQA1		DPB1		DPA1		METHOD
5488	Adams, Sharon	*03:07	*13:01:01	*01	*02	*06	*06	*01	*01	*04:01:01	*05:01:01			SSO, SBT, SSP
4691	Ajlan, Abdula	*03:07	*13:01/105+			*06:03/41/44	*06:09							SSO
8038	Cao, Kai	*03:07	*13:01/117	*01:01:02	*02:02	*06:03:01	*06:09	*01:02	*01:03	*04:01	*05:01/*135:01			SSO, SSP, SBT
774	Cecka, J. Mich	*03:07+	*13:01/61+	*01:01	*02:02/26+	*06:03/41/44	*06:09	*01:02/11	*01:03/10					SSP
8070	Chang, Uckjin	*03	*13											P-SSP
9916	Charlton, Ron	*03:07	*13:01:01	*01:01	*02:02	*06:03	*06:09							SSP, SBT
4492	Charron, D.	*03:07	*13:01	*01:01	*02:02	*06:03/59+	*06:09	*01:02/08+	*01:03/10	*04:01	*05:01/*135:01	*01:03	*02:01	P-SSO, SSP
3224	Chen, Dongfen	NT												SBT, SSP
8021	Clark, Brenda	*03:07	*13:01	*01	*02	*06:03	*06:09			*04:01	*05:01			P-SSP, RVSSO
3632	Colombe, Beth	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09							SSOP, SSP
5130	Costeas, Paul	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09	*01:02	*01:03					SSO, SSP
779	Daniel, Claud	*03 (DR17)	*13	*01:01	*02	*06:03/41/44	*06:09	*01:02	*01:03	*04:01	*05:01			P-SSP, SSO
5219	Daniel, Dolly	*03	*13			*06	*06							P-SSOP
5323	Dhaliw al, J.S	*03	*13	*01	*02	*06	*06	*01	*01					SSO, SSP
5891	Du, Keming	*03:07	*13:01/105+			*06:03/04+	*06:09/11+							P-SBT
5214	Eckels/CPMC	*03 (DR17)	*13	*01	*02	*06	*06:09	*01	*01	*04:01	*05:01:01G			SSOP
3135	Enczmann, J.	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09			*04:01	*05:01			SBT, P-SSP
762	Fischer, Got	*03:07	*13:01/117	*01:01	*02:02/28	*06:03	*06:09	*01:02	*01:03	*04:01	*05:01/*135:01			SSO, SBT
4079	Fort, Marylis	*03:07	*13:01/141			*06	*06			*04:01	*05:01/*135:01			SSP, SSO
792	Gandhi, Manis	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09	*01:02	*01:03	*04:01	*05:01			SSO, SSP
8043	Gideoni, Osna	*03:07	*13:01			*06:03	*06:09	*01:02	*01:03					SSP
9002	Gideoni_LR	*03	*13			*06								SSO, SSP
910	Hahn, Amy B.	*03:07	*13:01/61+	*01:01	*02:02/26+	*06:03/41/44	*06:09							SSP
810	Hamdi, Nuha	*03:01/07+	*13:01/02+	*01:01/11	*02:02/27+	*06:03/41/44	*06:09	*01:02/08+	*01:03/10					SSO
4269	Hanau, Daniel	*03:07	*13:01/117	*01:01	*02:02/28+	*06								SSO, SBT-DR
13	Hermes, Mark	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09							SSP
2344	Hurley/Hartz	*03:07	*13:01:01G			*06:03:01	*06:09			*04:01:01G	*05:01:01G			SBT
771	Israel, Shosh	*03:07	*13:01			*06:03	*06:09							SSP
9003	Israel_LR	*03	*13			*06								SSO
794	Jaatinen, Tai	*03:07	*13:01/105+	*01:01	*02:02	*06:03	*06:09	*01:02/08+	*01:03/10	*04:01	*05:01/*135:01	*01:03	*02:01	SBT, SSO, SSP
859	Kamoun, Malek	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09	*01:02	*01:03	*04:01	*05:01	*01:03	*02:01	SBT, SSO, SSP
4337	Kim, Tai-Gyu	*03:07	*13:01			*06:03	*06:09			*04:01	*05:01			SBT, SSP
1694	Kissel&Hess	*03	*13			*06:03	*06:09							SSP
168	Klein, Tirza	*03:07	*13:01			*06:03	*06:09							P-SSO, SSP
9000	Klein_LR	*03	*13			*06	*06							P-SSO, SSP
87	Land, Geoffrey	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09	*01:02	*01:03	*04:01	*05:01			SBT, SSO, SSP
725	Lardy, N.M.	*03	*13	*		*06		*01						SSO, SSP
278	Lee, Jar-How	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09	*01:02	*01:03	*04:01	*05:01	*01:03	*02:01	SSP, RVSSOP
5096	Lee, Sun-Ah	*03	*13											SSOP
640	Lee, Young K	*03:07	*13:01/117			*06:03	*06:09							P-SBT
6649	Lim, Young Ae	*03	*13	*										SSP
274	Lo, Raymundo	*03	*13			*06:38	*06:40	*01:02	*01:03	*63:01	*112:01	*01:05	*01:11	SSO
759	Lopez-Cepero	*03:07/01+	*13:01/28+	*01:01	*02:02/27+	*06:03/41/44	*06:09	*01:02/08+	*01:03	*04:01P	*05:01P	*01:03	*02:01	RVSSO
23	Mah, Helen	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09	*01:02	*01:03	*04:01	*05:01	*01:03	*02:01	SSO, SSP

**Table 2: Individual laboratory results for B-cell #495**

Center	Investigator	DRB1		DRB3		DQB1		DQA1		DPB1		DPA	METHOD
8029	Mani,Rama	*03	*13			*06	*06						SSO
8052	Marcos,Cintia Y	*03:01/07+	*13			*06:03/41/44	*06:09	*01:02/08+	*01:03/10				P-SSO
206	McAlack-Hana	*03 (DR17)	*13	*01	*02	*06	*06	*01	*01				RVSSOP
8042	Muncher,Lior	*03:07	*13:01			*06:03	*06:09						SSP
9001	Muncher_LR	*03	*13			*06							SSO
54	Pancoska,Ca	*03	*13	*01	*02	*06	*06:09	*01		*04	*05		RVSSO
3966	Permpikul&Ve	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09						P-SSP
2400	Phelan,Donna	*03:07	*13:01	*01	*02	*06:03	*06:09	*01:02:01G	*01:03/10	*04:01:01G	*05:01/*135:01		SSO,SBT,SSP
8001	Rao,Prakash	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09	*01		*04:01	*05:01		RVSSO,SSP
3753	Reed,Elaine	*03:07	*13:01	*01:01/11	*02:02/27+	*06:03/18/41	*06:09/88+	*01:02/08+	*01:03/10				SBT,SSO,SSP
3798	Reinsmoen,N	*03:07	*13:01/117	*01/*01:11	*02:02/27+	*06:03/41/44	*06:09	*01:02/08+	*01:03/10	*04:01	*05:01/*135:01		SSO,SBT
3519	Renac,Virgi	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09	*01:02	*01:03	*04:01	*05:01		SBT,P-SSP
1160	Rosen-Bronso	*03:07	*13:01/105+	*01:01	*02:02	*06:03	*06:09						SSO,SSP,SBT
793	Rubocki,Rona	*03 (DR17)	*13	*01	*02	*06		*01		*04:01+	*05:01P		
4251	Schiller,J	*03:07	*13:01	*01:01	*02:02/27+	*06:03	*06:09	*01	*01	*04:01	*05:01:01G		P-RVSSO,SBT
8068	Shanmugam,He	*03	*13	+		*06							P-SSP
1108	Sutherland,L	*03	*13	*01	*02	*06	*06	*01	*01				SSOP
747	Tiercy,Jean-	*03:07	*13:01:01	*01:01	*02:02	*06:03	*06:09	*01:02/08+	*01:03/10	*04:01:01	*05:01:01G		SSO,SSP,SBT
5451	Tilanus,Marc	*03:07	*13:01:01	+		*06							SBT,SSP
4021	Trachtenberg	*03	*13	*01	*02	*06	*06	*01	*01				SSO,SSP
5462	Turner,E.V.	*03:07	*13:01/105+	*01:01	*02:02/28+	*06:03	*06:09			*04:01	*05:01P		SSP,SSO,SBT
5642	Varnavidou-N	*03:07	*13:01/61+	+		*06:03/41/44	*06:09						P-SSP
797	Yabe,Hiromasu	*03:07	*13:01/105+			*06:03/41	*06:09	*01:02	*01:03				SSO,+SBT-DR
3511	Zeevi,Adrian	*03:07	*13:01	*01:01	*02:02	*06:03	*06:09	*01:02	*01:03	*04:01	*05:01		RVSSOP,SSP

CTR	DIRNAME	DR3	DR13	DR52		DQ1		OTH1
4492	Charron,D.	+	+	+		+		
910	Hahn,Amy B.	+	+	+		+		
4908	Kvam,Vonnett	DR17	+	+		+		
54	Pancoska,Car	DR17	+	+		+		
793	Rubocki,Rona	DR17	+	+		DQ6		
8063	Shai,Isaac	+	+	+		+		DQ4

**Table 3: Individual laboratory results for B-cell #496**

Center	Investigator	DRB1		DRB3	DRB4	DQB1		DQA1		DPB1		DPA1		METHOD
5488	Adams, Sharon	*07:01:01	*13:02:01	*03:01		*02:02:01	*06:09	*01	*02:01	*05:01:01	*11:01:01			SSO, SBT, SSP
4691	Ajlan, Abdula	*07:01	*13:02/128			*02:02	*06:09							SSO
8038	Cao, Kai	*07:01:01	*13:02:01	*03:01		*02:02:01	*06:09	*01:02	*02:01	*05:01/*135:01	*11:01:01			SSO, SBT
774	Cecka, J. Mich	*07:01/18+	*13:02/99+	*03:01	*03:01N	*02:02/06+	*06:09	*01:02/11	*02:01					SSP
8070	Chang, Uckjin		*13											P-SSP
9916	Charlton, Ron	*07:01:01	*13:02:01	*03:01	*03:01N	*02:02/10/11	*06:09							SSP, SBT
4492	Charron, D.	*07:01/23+	*13:02/123+	*03:01		*02:02/10+	*06:09	*01:02/08+	*02:01	*05:01/*135:01+	*11:01	*02:01		P-SSO, SSP
3224	Chen, Dongfen	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09							SBT, SSP
8021	Clark, Brenda	*07:01	*13:02	*03:01		*02:02	*06:09			*05:01	*11:01			P-SSP, RVSSO
3632	Colombe, Beth	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09							SSOP, SSP
5130	Costeas, Paul	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01:02	*02:01					SSO, SSP
779	Daniel, Claud	*07	*13	*03:01		*02:02	*06:09	*01:02	*02:01	*05:01	*11:01			P-SSP, SSO
5219	Daniel, Dolly	*07	*13			*02	*06							P-SSOP, SSP
5323	Dhaliw al, J.S	*07	*13	*03	*02/*03	*02	*06	*01	*02					SSO, SSP
5891	Du, Keming	*07:01	*13:02/128			*02:01/02	*06:05/09							P-SBT
5214	Eckels/CPMC	*07	*13	*03:01		*02	*06:09	*01	*02	*05:01:01G	*11:01			SSOP
3135	Enczmann, J.	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09			*05:01	*11:01			SBT, P-SSP
762	Fischer, Got	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01:02	*02:01	*05:01/*135:01	*11:01			SSO, SBT
4079	Fort, Marylis	*07:01	*13:02			*02:02	*06:09/22			*05:01	*11:01			SSP, SSO
792	Gandhi, Manis	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01:02	*02:01	*05:01	*11:01			SSO, SSP
8043	Gideoni, Osna	*07:01	*13:02			*02:02	*06:09	*01:02	*02:01					SSP
9002	Gideoni_LR	*07	*13			*02	*06							SSO, SSP
910	Hahn, Amy B.	*07:01/18+	*13:02/99+	*03:01	*03:01N	*02:02/06+	*06:09							SSP
810	Hamdi, Nuha	*07:01/03+	*13:02/96+	*03:01		*02:02/10/11	*06:09	*01:02/08+	*02:01					SSO
4269	Hanau, Daniel	*07:01	*13:02			*02	*06							SSP, SBT
13	Hermes, Mark	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09							SSP
2344	Hurley/Hartz	*07:01:01G	*13:02:01			*02:02/06	*06:09			*05:01:01G	*11:01:01			SBT
771	Israel, Shosh	*07:01	*13:02			*02:02	*06:09							SSP
9003	Israel_LR	*07	*13			*02	*06							SSO
794	Jaatinen, Tai	*07:01	*13:02/128	*03:01		*02:02/10/11	*06:09	*01:02/08+	*02:01	*05:01/*135:01+	*11:01	*02:01		SBT, SSO, SSP
859	Kamoun, Malek	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01:02	*02:01	*05:01	*11:01	*02:01		SBT, SSO, SSP
4337	Kim, Tai-Gyu	*07:01	*13:02			*02:02	*06:09			*05:01	*11:01			SBT, SSP
1694	Kissel&Hess	*07	*13			*02:02	*06:09							SSP
168	Klein, Tirza	*07:01	*13:02			*02:02	*06:06							P-SSO, SSP
9000	Klein_LR	*07	*13			*02	*06							P-SSO, SSP
87	Land, Geoffre	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01:02	*02:01	*05:01	*11:01			SBT, SSO, SSP
725	Lardy, N.M.	*07	*13	*+		*02	*06	*01	*02					SSO, SSP
278	Lee, Jar-How	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01:02	*02:01	*05:01	*11:01	*02:01		SSP, RVSSOP
5096	Lee, Sun-Ah	*07	*13											SSOP
640	Lee, Young K	*07:01	*13:02			*02:02	*06:09							P-SBT
6649	Lim, Young Ae	*07	*13	*+										SSP
274	Lo, Raymundo	*07	*13:74			*06:09	*06:09	*01:02	*02:01	*05:01	*11:01	*02:01	*02:01	SSO
759	Lopez-Cepero	*07:01/03+	*13:02/96+	*03:01		*02:02	*06:09	*01:02/08+	*02:01	*05:01P	*11:01	*02:01		RVSSO
23	Mah, Helen	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01:02	*02:01	*05:01	*11:01	*02:01	*02:01	SSO, SSP

**Table 3: Individual laboratory results for B-cell #496**

Center	Investigator	DRB1		DRB3	DRB4	DQB1		DQA1		DPB1		DPA1	METHOD
8029	Mani,Rama	*07	*13			*02	*06						SSO
8052	Marcos,Cintia Y	*07	*13:02/96+			*02:02/10/11	*06:09	*01:02/08+	*02:01				P-SSO
206	McAlack-Hana	*07	*13	*03		*02	*06	*01	*02				RVSSOP
8042	Muncher,Lior	*07:01	*13:02			*02:02	*06:09						SSP
9001	Muncher_LR	*07	*13			*02	*06						SSO
54	Pancoska,Ca	*07	*13	*03		*02	*06:09	*01	*02:01	*05	*11		RVSSO
3966	Permpikul&Ve	*07:01	*13:02	*03:01	*02:01/*03:01N	*02:02	*06:09						P-SSP
2400	Phelan,Donna	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01:02:01G	*02:01	*05:01/*135:01	*11:01		SSO,SBT,SSP
8001	Rao,Prakash	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01	*02	*05:01	*11:01		RVSSO,SSP
3753	Reed,Elaine	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01:02/08+	*02:01				SBT,SSO
3798	Reinsmoen,N	*07:01:01	*13:02:01	*03:01	*03:01N	*02:02/10/11	*06:09	*01:02/08+	*02:01	*05:01/*135:01+	*11:01		SSO,SBT
3519	Renac,Virgi	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01:02	*02:01	*05:01	*11:01		SBT,P-SSP
1160	Rosen-Bronso	*07:01/23+	*13:02	*03:01	*03:01N	*02:02	*06:09						SSO,SSP,SBT
793	Rubocki,Rona	*07	*13	*03		*02	*06	*01	*02	*05:01P	*11:01		
4251	Schiller,J	*07:01	*13:02	*03:01		*02:02	*06:09	*01	*02	*05:01:01G	*11:01		P-RVSSO,SBT
8068	Shanmugam,He	*07	*13	*+		*02	*06						P-SSP
1108	Sutherland,L	*07	*13	*03		*02	*06	*01	*02				SSOP
747	Tiercy,Jean-	*07:01:01G	*13:02:01	*03:01	*03:01N	*02:02:01	*06:09:01	*01:02/08+	*02:01	*05:01:01G	*11:01:01		SSO,SSP,SBT
5451	Tilanus,Marc	*07:01:01	*13:02:01	*+	*03:01N	*02	*06						SBT,SSP
4021	Trachtenberg	*07	*13	*03	*03N	*02	*06	*01	*02				SSO,SSP
5462	Turner,E.V.	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09			*05:01P	*11:01		SSP,SSO,SBT
5642	Varnavidou-N	*07:01/18+	*13:02+	*+	*+	*02:02/06+	*06:09						P-SSP
797	Yabe,Hiromasu	*07:01	*13:02			*02:02	*06:09	*01:02	*02:01				SSO,+SBT-DR
3511	Zeevi,Adrian	*07:01	*13:02	*03:01	*03:01N	*02:02	*06:09	*01:02	*02:01	*05:01	*11:01		RVSSOP,SSP

CTR	DIRNAME	DR7	DR13	DR52		DQ2	DQ1	OTH1
4492	Charron,D.	+	+	+		+	+	DR53
910	Hahn,Amy B.	+	+	+		+	DQ6	
4908	Kvam,Vonnett	+	+	+		+	+	DR53
54	Pancoska,Car	+	+	+		+	+	
793	Rubocki,Rona	+	+	+		+	DQ6	
8063	Shai,Isaac	+	+	+		+	+	

**Table 4: Summary of the 249th B-cell Line Exchange (Ter 497-498)**

<b>TER-497</b>												
DNA Typing	<b>66 LABS - DRB1</b> %(n)			<b>63 LABS - DQB1</b> %(n)		<b>37 LABS - DQA1</b> %(n)		<b>30 LABS - DPB1</b> %(n)		<b>10 LABS - DPA1</b> %(n)		
	DRB1*01:01:01	6 (4)		DQB1*05:01:01	6 (4)	DQA1*01:01:01	3 (1)	DPB1*02:01:02	7 (2)	DPA1*01:03:01G	10(1)	
	DRB1*01:01:01G	2 (1)		DQB1*05:01	48(30)	DQA1*01:01	38(14)	DPB1*02:01:02G	7 (2)	DPA1*01:03	90(9)	
	DRB1*01:01P	2 (1)		DQB1*05:01+	21(13)	DQA1*01:01+	3 (1)	DPB1*02:01P	3 (1)			
	DRB1*01:01	35(23)		DQB1*05	25(16)	DQA1*01	30(11)	DPB1*02:01	50(15)			
	<i>DRB1*01:42</i>	2 (1)						DPB1*120:01	3 (1)			
	DRB1*01:01+	26(18)						DPB1*02:01/*141:01	27(8)			
	DRB1*01	29(19)						DPB1*02	3 (1)			
	DRB1*01:03	61(40)							DPB1*04:01:01	3 (1)		
DRB1*01:02	2 (1)							DPB1*04:01:01G	6 (2)			
DRB1*01:03/39N	14(9)							DPB1*04:01P	3 (1)			
DRB1*01:03+	2 (1)							DPB1*04:01	80(24)			
DRB1*01	23(15)							<i>DPB1*123:01</i>	3 (1)			
								DPB1*04	3 (1)			
Serology	<b>6 LABS - DR</b> %(n)			<b>5 LABS - DQ</b> %(n)								
	DR1	100 (6)		DQ1	83(5)							
				DQ5	17(1)							
	DR103	100(6)										
<b>TER-498</b>												
DNA Typing	<b>66 LABS - DRB1</b> %(n)		<b>45 LABS - DRB3</b> %(n)		<b>63 LABS - DQB1</b> %(n)		<b>37 LABS - DQA1</b> %(n)		<b>28 LABS - DPB1</b> %(n)		<b>9 LABS - DPA1</b> %(n)	
	DRB1*04:06:01	2 (1)	DRB3*03:01:03	2 (1)	DQB1*03:02:01	5(3)	DQA1*01:02:02	3 (1)	DPB1*02:01:02	7 (2)	DPA1*01:03	88(8)
	DRB1*04:06	56(37)	DRB3*03:01	71(32)	DQB1*03:02	65(11)	DQA1*01:02	43(16)	DPB1*02:01:02G	7 (2)	DPA1*01:03:01+	11(1)
	DRB1*04:06+	14(9)	DRB3*03	13(6)	DQB1*03:02+	11(7)	DQA1*01:02+	27(10)	DPB1*02:01P	11(30)		
	DRB1*04	29(19)	DRB3*+	13(6)	DQB1*03(DQ8)	3 (2)	DQA1*01	27(10)	DPB1*02:01	54(15)		
					DQB1*03	16(10)			DPB1*02:01/*141:01	21(6)		
	DRB1*12:02:01	10(7)	<b>45 LABS - DRB4</b> %(n)	DQB1*05:02:01	5 (3)	DQA1*03:01:01	3 (1)	DPB1*13:01:01G	4 (1)	DPA1*02:01	88(8)	
	DRB1*12:02	45(30)	DRB4*01:03	51(23)	DQB1*05:02	56(35)	DQA1*03:01	41(15)	DPB1*13:01P	14(4)	DPA1*02:01:01+	11(1)
	<i>DRB1*12:19</i>	2 (1)	DRB4*01:01+	16(7)	<i>DQB1*05:05</i>	2 (1)	DQA1*03:01+	27(10)	DPB1*133:01	43(12)		
DRB1*12:02+	14(9)	DRB4*01	18(8)	DQB1*05:02+	16(10)	DQA1*03	30(11)	DPB1*13:01	21(6)			
DRB1*12	29(19)	DRB4*+	16(7)	DQB1*05	22(14)			DPB1*13:01+	14(4)			
								<i>DPB1*02:01</i>	4 (1)			
Serology	<b>6 LABS - DR</b> %(n)		<b>5 LABS - DR</b> %(n)		<b>6 LABS - DQ</b> %(n)							
	DR4	83(5)	DR52	100(5)	DQ3	17(1)						
	<i>DR1</i>	17(1)			DQ8	50(3)						
					DQ7	17(1)						
	DR12	100(5)	DR53	100(5)	DQ1	83(5)						



**Table 5: Individual laboratory results for B-cell #497**

Center	Investigator	DRB1		DQB1		DQA1		DPB1		DPA		METHOD
5488	Adams, Sharon	*01:01:01	*01:03	*05:01:01		*01:01		*02:01:02	*04:01:01			SSO,SBT,SSP
4691	Ajlan, Abdula	*01:01/40	*01:03/39N	*05:01/12	*05:01/07/11+							SSO
8038	Cao, Kai	*01:01/50	*01:03	*05:01:01		*01:01/04/05		*02:01/*141:01	*04:01			SSO,SBT
774	Cecka, J. Mich	*01:01/24+	*01:03/39N	*05:01/07/11+		*01:01/08/09						SSP
8070	Chang, Uckjin	*01										P-SSP
9916	Charlton, Ron	*01:01:01/50	*01:03	*05:01								SSP,SBT
4492	Charron, D.	*01:01/37+	*01:03	*05:01/20/22+		*01:01	*01:01	*02:01/*141:01	*04:01	*01:03		P-SSO,SSP
3224	Chen, Dongfen	*01:01/50	*01:03	*05:01								SBT
8021	Clark, Brenda	*01:01+	*01:03/39N	*05:01+				*02:01	*04:01			P-SSP,RVSSO
3632	Colombe, Beth	*01:01	*01:03	*05:01		*01:01						SSOP,SSP
5130	Costeas, Paul	*01:01	*01:03	*05:01	*05:01	*01:01	*01:01					SSO,SSP
779	Daniel, Claud	*01	*01:03	*05		*01:01		*02:01	*04:01			P-SSP,SSO
5219	Daniel, Dolly	*01	*01	*05	*05							P-SSOP
5323	Dhaliw al, J.S	*01	*01	*05	*05	*01	*01					SSP
5891	Du, Keming	*01:01/03	*01:03/50	*05:01	*05:01							P-SBT
5214	Eckels/CPMC	*01	*01	*05	*05	*01	*01	*02:01G	*04:01	*01:03	*01:03	SSOP
3135	Enczmann, J.	*01:01	*01:03	*05:01				*02:01	*04:01			SBT,P-SSP
762	Fischer, Got	*01:01/07+	*01:03/39N	*05:01		*01:01		*02:01	*04:01			SSO,SBT
4079	Fort, Marylis	*01:01	*01:03	*05:01/20				*02:01	*04:01			SSP,SSO
792	Gandhi, Manis	*01:01	*01:03	*05:01		*01:01		*02:01/*141:01	*04:01			SSO,SSP
8043	Gideoni, Osna	*01:01	*01:03	*05:01		*01:01		*02:01	*04:01	*01:03		SSP
9002	Gideoni_LR	*01		*05								SSO,SSP
910	Hahn, Amy B.	*01:01/24+	*01:03	*05:01/07/11+								SSP
810	Hamdi, Nuha	*01:01/05+	*01:03/39N	*05:01/12/18	*05:01/07/11+	*01:01/04/05	*01:01/04/05					SSO
4269	Hanau, Daniel	*01:01/40N+	*01:03/39N	*05:01/12/18	*05:01/07/11+	*01:01/04/05		*02:01	*04:01			SSO,SSP
13	Hermes, Mark	*01:01	*01:03	*05:01								SSP
2344	Hurley/Hartz	*01:01:01	*01:03	*05:01:01:01+	*05:01:01:01+	*01:01:01	*01:01:01	*02:01:02	*04:01:01:01+	*01:03:01G	*01:03:01G	SBT,SSOP
771	Israel, Shosh	*01:01	*01:03	*05:01								SSP
9003	Israel_LR	*01		*05								SSO
794	Jaatinen, Tai	*01:01	*01:03	*05:01		*01:01/04/05		*02:01/*141:01	*04:01	*01:03		SBT,SSO,SSP
859	Kamoun, Malek	*01:01	*01:03	*05:01		*01:01		*02:01/*141:01	*04:01	*01:03		SBT,SSO,SSP
4337	Kim, Tai-Gyu	*01:01	*01:03	*05:01				*02:01	*04:01			SBT,SSP
1694	Kissel&Hess	*01	*01:03	*05:01								SSP
87	Land, Geoffre	*01:01	*01:03	*05:01	*05:01	*01:01	*01:01	*02:01	*04:01			SBT,SSO,SSP
725	Lardy, N.M.	*01		*05		*01						SSO,SSP
278	Lee, Jar-How	*01:01	*01:03	*05:01		*01:01		*02:01	*04:01	*01:03		SSP,RVSSOP
5096	Lee, Sun-Ah	*01	*01									SSOP
640	Lee, Young K	*01:01/50	*01:03	*05:01								P-SBT
6649	Lim, Young Ae	*01										SSP
274	Lo, Raymundo	*01:42	*01:02	*05:01	*05	*01	*01:07	*120:01N	*123:01	*01:03	*01:03	SSO
731	Loew enthal, R	*01:01:01	*01:03	*05:01:01								SBT,SSO
759	Lopez-Cepero	*01:01/05+	*01:03/39N	*05:01/07/11+		*01:01/04/05		*02:01P	*04:01P	*01:03		RVSSO
23	Mah, Helen	*01:01	*01:03	*05:01		*01:01		*02:01	*04:01	*01:03		SSO,SSP
8029	Mani, Rama	*01	*01	*05	*05							SSO

**Table 5: Individual laboratory results for B-cell #497**

Center	Investigator	DRB1		DQB1		DQA1		DPB1		DPA		METHOD
8052	Marcos, Cintia Y	*01:01/38+	*01:03/39N	*05:01/12/18	*05:01/07/11+	*01:01/04/05	*01:01/04/05					P-SSO
206	McAlack-Hana	*01	*01:03	*05	*05	*01	*01					RVSSOP
8042	Muncher, Lior	*01:01	*01:03	*05:01								SSO,SSP
9001	Muncher_LR	*01		*05								SSO,SSP
54	Pancoska, Ca	*01	*01:03	*05		*01		*02	*04			RVSSO
3966	Permpikul&Ve	*01:01	*01:03	*05:01								P-SSP
2400	Phelan, Donna	*01:01	*01:03	*05:01		*01:01/04/05		*02:01/*141:01	*04:01			SSO,SBT,SSP
8001	Rao, Prakash	*01:01	*01:03	*05:01		*01		*02:01	*04:01			RVSSO,SSP
3753	Reed, Elaine	*01:01	*01:03	*05:01	*05:01	*01:01/04/05	*01:01/04/05					SBT,SSO
3798	Reinsmoen, N	*01:01:01/50	*01:03	*05:01/12/18	*05:01/07/11+	*01:01/04/05	*01:01/04/05	*02:01/*141:01	*04:01			SSO,SBT
3519	Renac, Virgi	*01:01	*01:03	*05:01		*01:01		*02:01	*04:01			SBT,P-SSP
1160	Rosen-Bronso	*01:01	*01:03	*05:01								SSP,SSO,SBT
793	Rubocki, Rona	*01		*05		*01		*02:01	*04:01			
4251	Schiller, J	*01:01:01G	*01:03	*05:01	*05:01	*01	*01	*02:01:02G	*04:01:01G			P-RVSSO,SBT
8068	Shanmugam, He	*01		*05								P-SSP
1108	Sutherland, L	*01		*05	*05	*01	*01					SSOP
5451	Tilanus, Marc	*01:01:01	*01:03	*05								SBT,SSP
4021	Trachtenberg	*01	*01	*05	*05	*01	*01					SSO
5462	Turner, E.V.	*01:01P	*01:03	*05:01				*02:01/*141:01	*04:01			SSP,SSO,SBT
5642	Varnavidou-N	*01:01/22+	*01:03/39N	*05:01/07/11+								P-SSP
797	Yabe, Hiromasa	*01:01	*01:03	*05:01/07/11		*01:01/04/05						SSO,+SBT-DR
3511	Zeevi, Adrian	*01:01	*01:03	*05:01		*01:01		*02:01	*04:01			RVSSOP,SSP

CTR	DIRNAME	DR1	DR103	DQ1		OTH1	OTH2
4492	Charron, D.	+	+	+		DR13	DR52
910	Hahn, Amy B.	+	+	+			
4908	Kvam, Vonnett	+	+	+			
54	Pancoska, Car	+	+	+			
793	Rubocki, Rona	+	+	DQ5			
8063	Shai, Isaac	+	+	+		DR4,DR11,DQ7	DR52,DR53

**Table 6: Individual laboratory results for B-cell #498**

Center	Investigator	DRB1		DRB3	DRB4	DQB1		DQA1		DPB1		DPA		METHOD
5488	Adams, Sharon	*04:06:01	*12:02:01	*03:01	*01	*03:02:01	*05:02:01	*01:02+	*03:01	*02:01:02	*133:01			SSO, SBT, SSP
4691	Ajlan, Abdula	*04:06	*12:02			*03:02	*05:02							SSO
8038	Cao, Kai	*04:06	*12:02:01	*03:01	*01:01/03+	*03:02:01	*05:02:01	*01:02	*03:01+	*02:01/*141:01	*133:01			SSO, SBT
774	Cecka, J. Mich	*04:06/144	*12:02+	*03:01	*01:03	*03:02/32+	*05:02/14+	*01:02+	*03:01					SSP
8070	Chang, Uckjin	*04	*12											P-SSP
9916	Charlton, Ron	*04:06	*12:02	*03:01	*01:03	*03:02/45	*05:02							SSP, SBT
4492	Charron, D.	*04:06/144	*12:02+	*03:01	*01:03	*03:02/45+	*05:02/17+	*01:02	*03:01	*02:01/*141:01	*133:01	*01:03	*02:01	P-SSO, SSP
3224	Chen, Dongfen	*04:06	*12:02:01	*03:01:03	*01:03	*03:02	*05:02							SBT, SSP
8021	Clark, Brenda	*04:06/144	*12:02+	*03:01	*01:01+	*03:02	*05:02							P-SSP, RVSSO
3632	Colombe, Beth	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02	*01:02	*03:01					SSOP, SSP
5130	Costeas, Paul	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02	*01:02	*03:01					SSO, SSP
779	Daniel, Claud	*04:06	*12	*03:01	*01	*03:02	*05:02	*01:02	*03:01	*02:01	*13:01/*133:01			P-SSP, SSO
5219	Daniel, Dolly	*04	*12			*03	*05							P-SSOP, SSP
5323	Dhaliw al, J.S	*04	*12	*03:01	*01:03	*03:02/32	*05:02/14	*01	*03					SSP
5891	Du, Keming	*04:06	*12:02			*03:02	*05:02							P-SBT
5214	Eckels/CPMC	*04	*12	*03	*01	*03:02	*05	*01	*03	*02:01G	*133:01	*01:03	*02:01	SSOP
3135	Enczmann, J.	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02			*02:01	*13:01			SBT, P-SSP
762	Fischer, Got	*04:06/49	*12:02	*03:01	*01:03	*03:02	*05:02	*01:02	*03:01	*02:01	*133:01			SSO, SBT
4079	Fort, Marylis	*04:06	*12:02			*03:02	*05:02			*02:01	*13:01			SSP, SSO
792	Gandhi, Manis	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02	*01:02	*03:01	*02:01/*141:01	*133:01			SSO, SSP
8043	Gideoni, Osna	*04:06	*12:02			*03:02	*05:02	*01:02	*03:01					SSP
9002	Gideoni_LR	*04	*12			*03	*05							SSO
910	Hahn, Amy B.	*04:06/144	*12:02+	*03:01	*01:03	*03:02/32+	*05:02/14+							SSP
810	Hamdi, Nuha	*04:06/144	*12:02+	*03:01	*01:01/03+	*03:02	*05:02/17	*01:02+	*03:01+					SSO
4269	Hanau, Daniel	*04:06/144	*12:02+			*03:02	*05:02/17	*01:02+	*03:01+	*02:01	*13:01/*133:01			SSO, SSP
13	Hermes, Mark	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02							SSP
2344	Hurley/Hartz	*04:06:01+	*12:02:01			*03:02:01+	*05:02:01+	*01:02:02	*03:01:01	*02:01:02	*13:01/*107:01/+	*01:03:01+	*02:01:01+	SBT, SSOP
771	Israel, Shosh	*04:06	*12:02			*03:02	*05:02							SSP
9003	Israel_LR	*04	*12			*03	*05							SSO
794	Jaatinen, Tai	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02	*01:02+	*03:01+	*02:01/*141:01	*133:01	*01:03	*02:01	SBT, SSO, SSP
859	Kamoun, Malek	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02	*01:02	*03:01	*02:01	*133:01	*01:03	*02:01	SBT, SSO, SSP
4337	Kim, Tai-Gyu	*04:06	*12:02			*03:02	*05:02			*02:01	*13:01			SBT, SSP
1694	Kissel&Hess	*04	*12	*+	*+	*03:02	*05:02							SSP
87	Land, Geoffre	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02	*01:02	*03:01	*02:01	*13:01			SBT, SSO, SSP
725	Lardy, N.M.	*04	*12	*+	*+	*03	*05	*01	*03					SSO, SSP
278	Lee, Jar-How	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02	*01:02	*03:01	*02:01	*13:01/*133:01	*01:03	*02:01	SSP, RVSSOP
5096	Lee, Sun-Ah	*04	*12											SSOP
640	Lee, Young K	*04:06	*12:02			*03:02	*05:02							P-SBT
6649	Lim, Young Ae	*04	*12	*+	*+									SSP
274	Lo, Raymundo	*04	*12:19			*03:02	*05:05	*01:02	*03	*02:01	*133:01	*01:03	*02:01	SSO
731	Loew enthal, R	*04:06	*12:02:01			*03:02:01	*05:02:01							SBT, SSO
759	Lopez-Cepero	*04:06	*12:02+	*03:01	*01:01/03+	*03:02	*05:02	*01:02+	*03:01+	*02:01P	*13:01P	*01:03	*02:01	RVSSO
23	Mah, Helen	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02	*01:02	*03:01	*02:01P	*13:01P	*01:03	*02:01	SSO, SSP
8029	Mani, Rama	*04	*12			*03	*05							SSO

**Table 6: Individual laboratory results for B-cell #498**

Center	Investigator	DRB1		DRB3	DRB4	DQB1		DQA1		DPB1		DPA		METHOD
8052	Marcos, Cintia Y	*04:06/144	*12:02+			*03:02	*05:02/17	*01:02+	*03:01+					P-SSO
206	McAlack-Hana	*04	*12	*03	*01	*03 (DQ8)	*05	*01	*03					RVSSOP
8042	Muncher, Lior	*04:06	*12:02			*03:02	*05:02							SSO, SSP
9001	Muncher_LR	*04	*12			*03	*05							SSO, SSP
54	Pancoska, Ca	*04	*12	*03:01	*01	*03:02	*05	*01	*03	*02:01				RVSSO
3966	Permpikul&Ve	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02							P-SSP
2400	Phelan, Donna	*04:06	*12:02	*03	*01	*03:02	*05:02	*01:02+	*03:01+	*02:01/*141:01	*133:01			SSO, SBT, SSP
8001	Rao, Prakash	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02	*01	*03	*02:01	*133:01			RVSSO, SSP
3753	Reed, Elaine	*04:06	*12:02	*03:01	*01:01/03+	*03:02	*05:02	*01:02+	*03:01+					SBT, SSO
3798	Reinsmoen, N	*04:06	*12:02:01	*03:01	*01:01/03+	*03:02	*05:02/17	*01:02+	*03:01+	*02:01/*141:01	*133:01			SSO, SBT
3519	Renac, Virgi	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02	*01:02	*03:01	*02:01	*13:01			SBT, P-SSP
1160	Rosen-Bronso	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02							SSP, SSO, SBT
793	Rubocki, Rona	*04	*12	*03	+	*03 (DQ8)	*05	*01	*03	*02:01	*13:01			
4251	Schiller, J	*04:06	*12:02	*03:01	*01:01/03+	*03:02	*05:02	*01	*03	*02:01:02G	*13:01:01G			P-RVSSO, SBT
8068	Shanmugam, He	*04	*12	+	+	*03	*05							P-SSP
1108	Sutherland, L	*04	*12	*03	*01	*03	*05	*01	*03					SSOP
5451	Tilanus, Marc	*04:06	*12:02:01	+	+	*03	*05							SBT, SSP
4021	Trachtenberg	*04	*12	*03	*01	*03	*05	*01	*03					SSO
5462	Turner, E.V.	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02			*02:01P	*13:01P			SSP, SSO, SBT
5642	Varnavidou-N	*04:06/85+	*12:02+	+	+	*03:02/32+	*05:02/14+							P-SSP
797	Yabe, Hiromasa	*04:06	*12:02			*03:02	*05:02	*01:02	*03:01+					SSO, +SBT-DR
3511	Zeevi, Adrian	*04:06	*12:02	*03:01	*01:03	*03:02	*05:02	*01:02	*03:01	*02:01	*13:01P			RVSSOP, SSP

CTR	DIRNAME	DR4	DR12	DR52	DR53	DQ3	DQ1	OTH1	OTH2
4492	Charron, D.	+	+	+	+	+	+		
910	Hahn, Amy B.	+	+	+	+	DQ8	+		
4908	Kvam, Vonnett							DR1	
54	Pancoska, Car	+	+	+	+	DQ8	+		
793	Rubocki, Rona	+	+	+	+	DQ8	+		
8063	Shai, Isaac	+	+	+	+	DQ7			

## DNA Extract Exchange #150

The results for DNA Extract Exchange #150 are summarized in Table 7 and individual laboratory results reported for each DNA sample are listed in Tables 8 - 11. We would like to express our appreciation to **Helen Bass, Jane Rowlands, and Tracy Rees, Welsh Blood Service, Pontyclun**, in

sharing the valuable reference cells studied in our exchanges. We congratulate Dunn on astutely identifying the samples in this study as having been typed previously in our exchanges.

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**Extract 597.** The consensus type for this Caucasian sample is A\*02:01-A\*25:01-B\*15:78-B\*38:01-C\*03:04-C\*12:03. One likely haplotype in this cell is A\*25:01-B\*38:01-C\*12:03, observed exclusively in Caucasians, with HF=0.00022. The other probable haplotype is A\*02:01-B\*15:78-C\*03:04.

This cell is 14513383, the reference cell for B\*15:78. It was previously typed in the exchange as extract 481 (2010). In this present study, the assignment of B\*15:78 (59%) was comparable to the 61% detection level in 2010. Six labs reported B\*15:78:01. B\*38:01 (41%) was reported as the second B-locus allele, with 7 labs assigning B\*38:01:01.

**Extract 598.** The consensus type for this Caucasian sample is A\*01:01-A\*68:01-B\*08:19N-B\*40:01-C\*03:04-C\*07:01. One likely association in this cell is B\*40:01 and C\*03:04. B\*40:01-C\*03:04 is the 4<sup>th</sup> most common association in Caucasians, with HF=0.05538. The other probable association is then most likely B\*08:19N-C\*07:01.

This cell is 11829109, the reference cell for B\*08:19N. It was previously typed as extract 410 (2008). B\*08:19N was detected by 41% in this present retyping, compared to 46% of labs assigning B\*08:19N in 2010. B\*08:01:01G was reported by 2 labs. C\*07:01 was assigned by 31%. A number of labs (n=11) were unable to resolve C\*07:01 from C\*07:06 and C\*07:08.

**Extract 599.** The consensus type for this Hispanic cell is A\*02:01-A\*31:01-B\*35:16-B\*39:02-C\*04:01-C\*07:02. One likely association in this cell is B\*39:02-C\*07:02, observed exclusively in Hispanics, with HF=0.00219. The other probable haplotype is B\*35:16-C\*04:01. The B\*35:16-C\*04 association in this cell is also observed in MDA0000095, a reference cell for B\*35:16 (4).

This cell was previously typed numerous times in the exchange as extracts 544 (2012), 354 (2006), 308 (2004) and cells 1032 (2000) and 974 (1998). B\*35:16 was assigned by 65% in this retyping, compared to 71% in 2012. B\*39:02 (60%) was reported as the second B-locus type, with 7 labs assigning B\*39:02:02.

**Extract 600.** The consensus type for this Chinese cell is A\*02:01-A\*24:03-B\*15:25-B\*40:02-C\*04:03-C\*15:02. The likely associations in this cell are B\*15:25-C\*04:03 and B\*40:02-C\*15:02, with respective frequencies of HF=0.00455 and 0.00807, in Asians.

This cell was previously typed as cells 1334 (2008) and 1313 (2007). An HLA identical sibling was also typed in the exchange as extract 492 (2010). In this present retyping, B\*15:25 was reported by 58%, a decrease from a detection level of 73% in 2008. B\*15:25:01 was assigned by 5 labs.

**Table 7. Summary of the 150 DNA Extract Exchange (Extract #597-600)**

Extract 597		Extract 598		Extract 599		Extract 600	
37 labs	% (n)	37 labs	% (n)	37 labs	% (n)	37 labs	% (n)
A*02:01:01:01	3 (1)	A*01:01:01:01	5 (2)	A*02:01:01:01	3 (1)	A*02:01:01:01	3 (1)
A*02:01:01	3 (1)	A*01:01:01G	8 (3)	A*02:01:01	3 (1)	A*02:01:01	5 (2)
A*02:01:01G	6 (2)	A*01:01:01	3 (1)	A*02:01:01G	5 (2)	A*02:01:01G	5 (2)
A*02:01	28(10)	A*01:01	27(10)	A*02:01	24(9)	A*02:01	24(9)
A*02:01/01L	14(5)	A*01:01+	16(6)	A*02:01/01L	16(6)	A*02:01/0L	16(6)
A*02:01+	6 (2)	A*01	41(15)	A*02:01+	8 (3)	A*02:01+	8 (3)
A*02	42(15)			A*02	41(15)	A*02	38(14)
A*25:01:01	8 (3)	A*68:01:02	8 (3)	A*31:01:02	11(4)	A*24:03:01	14(5)
A*25:01:01G	3 (1)	A*68:01:02G	8 (3)	A*31:01:02G	5 (2)	A*24:03:01G	3 (1)
A*25:01P	3 (1)	A*68:01	27(10)	A*31:01	35(13)	A*24:03P	3 (1)
A*25:01	41(15)	A*68:01+	16(6)	A*31:01+	8 (3)	A*24:03	37(13)
A*25:01+	5 (2)	A*68	41(15)	A*31	15(41)	A*24:02+	3 (1)
A*25	41(15)					A*24	40(14)
<b>37 labs</b>	<b>% (n)</b>	<b>37 labs</b>	<b>% (n)</b>	<b>37 labs</b>	<b>% (n)</b>	<b>37 labs</b>	<b>% (n)</b>
B*15:78:01	16(6)	B*08:01:01G	5 (2)	B*35:16	65(24)	B*15:25:01	14(5)
B*15:78	43(16)	B*08:19N	41(15)	B*35	35(13)	B*15:25:01G	3 (1)
B*15:33+	3 (1)	B*08:01	3 (1)			B*15:25P	3 (1)
B*15	38(14)	B*08:01+	11(4)			B*15:25	38(14)
		B*08	41(15)			B*15:25+	11(4)
						B*15	32(12)
B*38:01:01	19(7)	B*40:01:01G	3 (1)	B*39:02:02	19(7)	B*40:02:01	11(4)
B*38:01	41(15)	B*40:01P	3 (1)	B*39:02	41(15)	B*40:02:01G	5 (2)
B*38:01+	3 (1)	B*40:01	46(17)	B*39:02+	5 (2)	B*40:02	35(13)
B*38	38(14)	B*40:01+	8 (3)	B*39	35(13)	B*40:02+	11(4)
		B*40	41(15)			B*40	38(14)
<b>35 labs</b>	<b>% (n)</b>	<b>35 labs</b>	<b>% (n)</b>	<b>35 labs</b>	<b>% (n)</b>	<b>35 labs</b>	<b>% (n)</b>
C*03:04:01	6 (2)	C*03:04:01	9 (3)	C*04:01:01	3 (1)	C*04:03:01	3 (1)
C*03:04:01G	3 (1)	C*03:04:01G	3 (1)	C*04:01:01G	9 (3)	C*04:03	51(18)
C*03:04P	3 (1)	C*03:04P	3 (1)	C*04:01P	3 (1)	C*04:03+	11(4)
C*03:04	49(17)	C*03:04	43(15)	C*04:01	20(7)	C*04	34(12)
C*03:04+	6 (2)	C*03:02+	6 (2)	C*04:01+	29(10)		
C*03	12(34)	C*03	37(13)	C*04	37(13)		
C*12:03:01	6 (2)	C*07:01:01:01	3 (1)	C*07:02:01	3 (1)	C*15:02:01	11(4)
C*12:03:01G	3 (1)	C*07:01:01G	6 (2)	C*07:02:01G	6 (2)	C*15:02:01G	3 (1)
C*12:03P	3 (1)	C*07:01P	3 (1)	C*07:02P	3 (1)	C*15:02P	3 (1)
C*12:03	49(17)	C*07:01	20(7)	C*07:02	23(8)	C*15:02	34(12)
C*12:03+	6 (2)	C*07:01+	31(11)	C*07:02+	28(10)	C*15:02+	11(4)
C*12	34(12)	C*07	37(13)	C*07	37(13)	C*15	37(13)

**Table 8. Individual laboratory results for DNA Extract #597**

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
5488	Adams, Sharon	*02	*25	*15:78:01	*38:01:01	*03:04	*12:03	RSSO, SBT, SSP
4691	Ajlan, Abdulaziz	*02	*25	*15	*38	*03	*12	SSO
2332	Al-Aw w ami, Mo	*02	*25	*15	*38	*03	*12	SSO
4345	Blasczyk, Rainer	*02:01:01G	*25:01P	*15:78:01	*38:01:01	*03:04P	*12:03P	SBT
8038	Cao, Kai	*02:01:01	*25:01:01	*15:78:01	*38:01:01	*03:04:01	*12:03:01	SSO, SBT
9916	Charlton, Ron	*02:01:01:01	*25:01:01	*15:78:01	*38:01:01	*03:04	*12:03	SBT
8021	Clark, Brenda	*02:01+	*25:01+	*15:33/78+	*38:01+	*03:04+	*12:03+	PCR-SSP, RSSO
5219	Daniel, Dolly	*02	*25	*15	*38			PCR-SSO
5323	Dhaliw al, J.S	*02	*25	*15	*38	*03	*12	PCR-SSP
5891	Du, Keming	*02:01	*25:01	*15:78	*38:01	*03:04	*12:03	PCR-SBT
3766	Dunn, Paul	*02	*25	*15	*38	*03	*12	PCR-SSO
3135	Enczmann, J.	*02:01/01L	*25:01	*15:78	*38:01	*03:04	*12:03	SBT, SSO
762	Fischer, Gottfried	*02:01/01L	*25:01	*15:78	*38:01	*03:04	*12:03	SBT, SSO, SSP
8022	Hedlund, Anna	*02:01	*25:01	*15:78	*38:01	*03:04	*12:03	SSP
13	Hermes, Mark	*02:01	*25:01	*15:78	*38:01	*03:04	*12:03	SSP
745	Holman, Richard	*02:01/01L	*25:01	*15:78	*38:01:01	*03:04	*12:03	SSO, SSP, SBT
2344	Hurley&Hartzman	*02:01:01G	*25:01:01G	*15:78:01	*38:01:01	*03:04:01G	*12:03:01G	SBT, SSO
1694	Kissel&Hesse	*02	*25	*15	*38	*03	*12	SSP
87	Land, Geoffrey	*02:01	*25:01	*15:78	*38:01	*03:04	*12:03	SBT, SSO, SSP
278	Lee, Jar-How	*02:01	*25:01	*15:78	*38:01	*03:04	*12:03	SSP, RSSO
5096	Lee, Sun-Ah	*02	*25	*15	*38			SSO
640	Lee, Young Kyu	*02:01	*25:01	*15:78	*38:01	*03:04	*12:03	PCR-SBT
2847	Masaki, Kihara	*02	*25	*15	*38	*03	*12	RSSO
8042	Muncher, Liora	*02:01	*25:01	*15:78	*38:01	*03:04	*12:03	SSO, SSP
9001	Muncher_LR	*02	*25	*15	*38	*03	*12	SSO, SSP
54	Pancoska, Carol	*02	*25	*15	*38	*03	*12	RSSO
3966	Permpikul&Vejsa	*02	*25	*15	*38	*03	*12	PCR-SSP
2400	Phelan, Donna	*02:01	*25:01	*15:78	*38:01	*03:04	*12:03	RSSO, SBT, SSP
3753	Reed, Elaine	*02:01/346	*25:01/13	*15:78	*38:01	*03:04/09/38	*12:03/98/99	SBT, SSO
3798	Reinsmoen, Nancy	*02:01:01/01L	*25:01:01	*15:78:01	*38:01:01	*03:04:01	*12:03:01	SSP, SSO, SBT
4251	Schiller, Jennifer	*02:01	*25:01	*15:78	*38:01	*03:04	*12:03	PCR-RSSO, SBT
3545	Scornik, Juan	*02:01/01L	*25:01	*15:78	*38:01	*03:04	*12:03	SSO, SBT
8068	Shanmugam, He	*02	*25	*15	*38	*03	*12	PCR-SSP
1108	Sutherland, Leslie	*02	*25	*15	*38	*03	*12	RSSO
4021	Trachtenberg, E	*02	*25	*15	*38	*03	*12	SSO, SSP
5462	Turner, E.V.	*02:01	*25:01	*15:78	*38:01	*03:04	*12:03	SBT, SSO
797	Yabe, Hiromasa	*02:01/01L	*25:01	*15:78	*38:01	*03:04	*12:03	SBT, SSO

**Table 9. Individual laboratory results for DNA Extract #598**

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
5488	Adams, Sharon	*01	*68	*08	*40	*03	*07	RSSO, SBT, SSP
4691	Ajlan, Abdulaziz	*01	*68	*08	*40	*03	*07	SSO
2332	Al-Aw w ami, Mo	*01	*68	*08	*40	*03	*07	SSO
4345	Blasczyk, Rainer	*01:01:01G	*68:01:02G	*08:01:01G	*40:01P	*03:04P	*07:01P	SBT
8038	Cao, Kai	*01:01:01:01+	*68:01:02	*08:19N	*40:01	*03:04:01	*07:01/06/18	SSO, SBT
9916	Charlton, Ron	*01:01:01:01	*68:01:02	*08:19N	*40:01	*03:04:01	*07:01:01:01	SBT
8021	Clark, Brenda	*01:01+	*68:01+	*08:01+	*40:01+	*03:02+	*07:01+	PCR-SSP, RSSO
5219	Daniel, Dolly	*01	*68	*08	*40			PCR-SSO
5323	Dhaliw al, J.S	*01	*68	*08	*40	*03	*07	PCR-SSP
5891	Du, Keming	*01:01/17/28/109	*68:01/03/11N/84	*08:01/04/12/23	*40:01/07/80/43	*03:04	*07:01/06/18	PCR-SBT
3766	Dunn, Paul	*01	*68	*08	*40	*03	*07	PCR-SSO
3135	Enczmann, J.	*01:01	*68:01	*08:01	*40:01	*03:04	*07:01/06/18	SBT, SSO
762	Fischer, Gottfried	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01/06/18	SBT, SSO
8022	Hedlund, Anna	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSP
13	Hermes, Mark	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSP
745	Holman, Richard	*01:01:01:01	*68:01:02	*08:19N	*40:01	*03:04	*07:01	SSO, SSP, SBT
2344	Hurley & Hartzman	*01:01:01G	*68:01:02G	*08:01:01G	*40:01:01G	*03:04:01G	*07:01:01G	SBT, SSO
1694	Kissel & Hesse	*01	*68	*08	*40	*03	*07	SSP
87	Land, Geoffrey	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SBT, SSO, SSP
278	Lee, Jar-How	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSP, RSSO
5096	Lee, Sun-Ah	*01	*68	*08	*40			SSO
640	Lee, Young Kyu	*01:01	*68:01/11N	*08:19N	*40:01	*03:04	*07:01/06/18	PCR-SBT
2847	Masaki, Kihara	*01	*68	*08	*40	*03	*07	RSSO
8042	Muncher, Liora	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSO, SSP
9001	Muncher_LR	*01	*68	*08	*40	*03	*07	SSO, SSP
54	Pancoska, Carol	*01	*68	*08	*40	*03	*07	RSSO
3966	Permpikul & Vejba	*01	*68	*08	*40	*03	*07	PCR-SSP
2400	Phelan, Donna	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01/06/18	RSSO, SBT, SSP
3753	Reed, Elaine	*01:01/17/26+	*68:01/03/11N+	*08:19N/01/04+	*40:01/07/43/80	*03:04/08/09+	*07:01/06/16+	SBT, SSO
3798	Reinsmoen, Nancy	*01:01:01/01N	*68:01:02/11N	*08:19N	*40:01	*03:04:01	*07:01/06/18	SSP, SSO, SBT
4251	Schiller, Jennifer	*01:01:01G	*68:01:02G	*08:19N	*40:01	*03:04	*07:01:01G	PCR-RSSO, SBT
3545	Scornik, Juan	*01:01/01N	*68:01/11N	*08:19N	*40:01	*03:04	*07:01/06/18	SSO, SBT
8068	Shanmugam, He	*01	*68	*08	*40	*03	*07	PCR-SSP
1108	Sutherland, Leslie	*01	*68	*08	*40	*03	*07	RSSO
4021	Trachtenberg, E	*01	*68	*08	*40	*03	*07	SSO, SSP
5462	Turner, E.V.	*01:01	*68:01	*08:19N	*40:01	*03:04	*07:01	SSO, SBT
797	Yabe, Hiromasa	*01:01/01N	*68:01	*08:01/19N	*40:01	*03:04	*07:01/06/18	SSO, SBT



**Table 10. Individual laboratory results for DNA Extract #599**

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
5488	Adams, Sharon	*02	*31	*35:16	*39:02:02	*04	*07	RSSO, SBT, SSP
4691	Ajlan, Abdulaziz	*02	*31	*35	*39	*04	*07	SSO
2332	Al-Aw w ami, Mo	*02	*31	*35	*39	*04	*07	SSO
4345	Blasczyk, Rainer	*02:01:01G	*31:01:02G	*35:16	*39:02:02	*04:01:01G	*07:02P	SBT
8038	Cao, Kai	*02:01:01	*31:01:02	*35:16	*39:02:02	*04:01/09N/30+	*07:02/50	SSO, SBT
9916	Charlton, Ron	*02:01:01:01	*31:01:02	*35:16	*39:02:02	*04:01:01	*07:02:01	SBT
8021	Clark, Brenda	*02:01+	*31:01+	*35:16	*39:02+	*04:01+	*07:02+	PCR-SSP, RSSO
5219	Daniel, Dolly	*02	*31	*35	*39			PCR-SSO
5323	Dhaliw al, J.S	*02	*31	*35	*39	*04	*07	PCR-SSP
5891	Du, Keming	*02:01/20/24/40+	*31:01/02/68/41+	*35:16	*39:02	*04:01/04/07+	*07:02/50/37/125+	PCR-SBT
3766	Dunn, Paul	*02	*31	*35:16	*39:02/13/23	*04	*07	PCR-SSO
3135	Enczmann, J.	*02:01/01L	*31:01	*35:16	*39:02	*04:01/09N	*07:02	SBT, SSO
762	Fischer, Gottfried	*02:01/01L	*31:01	*35:16	*39:02	*04:01/09N/30+	*07:02/50	SBT, SSO
8022	Hedlund, Anna	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	SSP
13	Hermes, Mark	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	SSP
745	Holman, Richard	*02:01/01L	*31:01:02	*35:16	*39:02:02	*04:01	*07:02	SSO, SSP, SBT
2344	Hurley & Hartzman	*02:01:01G	*31:01:02G	*35:16	*39:02:02	*04:01:01G	*07:02:01G	SBT, SSO
1694	Kissel & Hesse	*02	*31	*35	*39	*04	*07	SSP
87	Land, Geoffrey	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	SBT, SSO, SSP
278	Lee, Jar-How	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	SSP, RSSO
5096	Lee, Sun-Ah	*02	*31	*35	*39			SSO
640	Lee, Young Kyu	*02:01	*31:01	*35:16	*39:02	*04:01/09N/29+	*07:02/50/76	PCR-SBT
2847	Masaki, Kihara	*02	*31	*35	*39	*04	*07	RSSO
8042	Muncher, Liora	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	SSO, SSP
9001	Muncher_LR	*02	*31	*35	*39	*04	*07	SSO, SSP
54	Pancoska, Carol	*02	*31	*35	*39	*04	*07	RSSO
3966	Permpikul & Vejba	*02	*31	*35	*39	*04	*07	PCR-SSP
2400	Phelan, Donna	*02:01	*31:01	*35:16	*39:02	*04:01:01G	*07:02/50	RSSO, SBT, SSP
3753	Reed, Elaine	*02:01/20/24+	*31:01/02/21/41+	*35:16	*39:02	*04:01/04/07+	*07:02/37/50+	SBT, SSO
3798	Reinsmoen, Nancy	*02:01:01/01L	*31:01:02	*35:16	*39:02:02	*04:01/82	*07:02:01/50	SSP, SSO, SBT
4251	Schiller, Jennifer	*02:01	*31:01	*35:16	*39:02	*04:01P	*07:02:01G	PCR-RSSO, SBT
3545	Scornik, Juan	*02:01/01L	*31:01	*35:16	*39:02	*04:01/09N/30+	*07:02/50	SSO, SBT
8068	Shanmugam, He	*02	*31	*35	*39	*04	*07	PCR-SSP
1108	Sutherland, Leslie	*02	*31	*35	*39	*04	*07	RSSO
4021	Trachtenberg, E	*02	*31	*35	*39	*04	*07	SSO, SSP
5462	Turner, E.V.	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	SBT, SSO
797	Yabe, Hiromasa	*02:01/01L	*31:01	*35:16	*39:02	*04:01/09N/30+	*07:02/50	SSO, SBT

**Table 11. Individual laboratory results for DNA Extract #600**

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
5488	Adams, Sharon	*02:01:01	*24:03:01	*15:25:01	*40:02:01	*04	*15	RSSO, SBT, SSP
4691	Ajlan, Abdulaziz	*02	*24	*15	*40	*04	*15	SSO
2332	Al-Aw w ami, Mo	*02	*24	*15	*40	*04	*15	SSO
4345	Blasczyk, Rainer	*02:01:01G	*24:03P	*15:25P	*40:02:01G	*04:03	*15:02P	SBT
8038	Cao, Kai	*02:01:01	*24:03:01	*15:25:01	*40:02:01	*04:03	*15:02:01	SSO, SBT
9916	Charlton, Ron	*02:01:01:01	*24:03:01	*15:25:01	*40:02:01	*04:03	*15:02:01	SBT
8021	Clark, Brenda	*02:01+	*24:02+	*15:25/240	*40:02+	*04:03+	*15:02+	PCR-SSP, RSSO
5219	Daniel, Dolly	*02	*24	*15	*40			PCR-SSO
5323	Dhaliwal, J.S	*02	*24	*15	*40	*04	*15	PCR-SSP
5891	Du, Keming	*02:01/12	*24:03/207	*15:25/204	*40:02/40/229	*04:03/06/107	*15:02/08/62	PCR-SBT
3766	Dunn, Paul	*02	*24	*15:25/240	*40	*04:03/06/107	*15	PCR-SSO
3135	Enczmann, J.	*02:01/01L	*24:03	*15:25	*40:02	*04:03	*15:02	SBT, SSO
762	Fischer, Gottfried	*02:01/01L	*24:03	*15:25	*40:02	*04:03	*15:02	SBT, SSO
8022	Hedlund, Anna	*02:01	*24:03	*15:25	*40:02	*04:03	*15:02/03	SSP
13	Hermes, Mark	*02:01	*24:03	*15:25	*40:02	*04:03	*15:02	SSP
745	Holman, Richard	*02:01/01L	*24:03:01	*15:25:01	*40:02/104	*04:03:01	*15:02:01	SSO, SSP, SBT
2344	Hurley & Hartzman	*02:01:01G	*24:03:01G	*15:25:01G	*40:02:01G	*04:03	*15:02:01G	SBT, SSO
1694	Kissel & Hesse	*02	*24	*15	*40	*04	*15	SSP
87	Land, Geoffrey	*02:01	*24:03	*15:25	*40:02	*04:03	*15:02	SBT, SSO, SSP
278	Lee, Jar-How	*02:01	*24:03	*15:25	*40:02	*04:03	*15:02	SSP, RSSO
5096	Lee, Sun-Ah	*02	*24	*15	*40			SSO
640	Lee, Young Kyu	*02:01	*24:03	*15:25	*40:02	*04:03	*15:02	PCR-SBT
2847	Masaki, Kihara	*02	*24	*15	*40	*04	*15	RSSO
8042	Muncher, Liora	*02:01	*24:03	*15:25	*40:02	*04:03	*15:02	SSO, SSP
9001	Muncher_LR	*02	*24	*15	*40	*04	*15	SSO, SSP
54	Pancoska, Carol	*02	*24	*15	*40	*04	*15	RSSO
3966	Permpikul & Vejba	*02	*24	*15:25	*40	*04	*15	PCR-SSP
2400	Phelan, Donna	*02:01	*24:03	*15:25	*40:02	*04:03	*15:02	RSSO, SBT, SSP
3753	Reed, Elaine	*02:01/12	*24:03/207	*15:25/204	*40:02/40/229	*04:03/06/107	*15:02/08/62	SBT, SSO
3798	Reinsmoen, Nancy	*02:01:01/01L	*24:03:01	*15:25:01	*40:02:01	*04:03	*15:02:01	SSP, SSO, SBT
4251	Schiller, Jennifer	*02:01	*24:03	*15:25	*40:02	*04:03	*15:02	PCR-RSSO, SBT
3545	Scornik, Juan	*02:01/01L	*24:03	*15:25	*40:02	*04:03	*15:02	SSO, SBT
8068	Shanmugam, He	*02	*24	*15	*40	*04	*15	PCR-SSP
1108	Sutherland, Leslie	*02	*24	*15	*40	*04	*15	RSSO
4021	Trachtenberg, E	*02	*24	*15	*40	*04	*15	SSO, SSP
5462	Turner, E.V.	*02:01	*24:03	*15:25	*40:02	*04:03	*15:02	SBT, SSO
797	Yabe, Hiromasa	*02:01/01L	*24:03	*15:25	*40:02	*04:03	*15:02	SSO, SBT

## Cell Exchange #378

The results for Cell Exchange #378 are summarized in Table 12 and Table 13. Molecular typing results for individual laboratories are listed in Tables 14-

17 for each sample and individual serology results for each sample are listed in Table 18.

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**Cell 1509.** The consensus type for this Hispanic sample is A\*68:01(A68)-A\*68:02(A68)-B\*48:01(B48)-B\*53:01(B53)-C\*04:01(Cw4)-C\*08:01(Cw8). This cell is the sibling of cell 1370 (same as 1168), cell 1393, and cell 1477 (same as 1175). From family studies, the haplotypes in this cell are determined to be A\*68:01-B\*48:01-C\*08:01 and A\*68:02-B\*53:01-C\*04:01.

A68 (69%) was reported as the A28 split, with Askar and Pollack noting additional reactivity to A69. Cross reactivity to A33 anti-sera was also noted by Keown and Holman. Two different A\*68 subtypes were found to be present in this cell, A\*68:01 (39%) and A\*68:02 (46%). Cw4 (52%) and Cw8 (41%) were reported as the C-locus types, with DNA assigning C\*04:01 (39%) and C\*08:01 (36%). Five labs were unable to resolve C\*08:01 from C\*08:02.

**Cell 1510.** The consensus type for this Hispanic cell is A\*01:01(A1)-A\*68:03(A68)-B\*15:17(B63)-B\*35:43(B35)-C\*01:02(Cw1)-C\*07:01(Cw7). This sample is the HLA identical sibling of cell 1459 (same as 1419). From family studies, the likely associations in this cell are B\*15:17-C\*07:01 and B\*35:43-C\*01:02, with respective frequencies of HF= 0.00601 and 0.00778, in Hispanics.

Askar noted that this cell, along with cell 1512, displayed a short reaction pattern with B35 reagents, as compared to cell 1511. B35 was detected by 97% and confirmed as B\*35:43 (46%). Five labs assigned B\*35:43:01. B63 (87%) was assigned as the second B-locus type and confirmed as B\*15:17 (52%). B\*15:17:01 was assigned by 4 labs.

**Cell 1511.** The consensus type for this Hispanic cell is A\*02:01(A2)-A\*24:02(A24)-B\*35:17(B35)-B\*39:01(B39)-C\*04:01(Cw4). One likely association in this cell is B\*35:17-C\*04:01, with HF= 0.01631, in Hispanics. The other probable association is B\*39:01-C\*04:01, with HF= 0.00025, in Hispanics. B\*39:01-C\*04:01 has been observed in 1 other exchange cell, cell 1375 (same as ext 568), also from a Hispanic donor.

B35 and B39 were reported in complete agreement as the B-locus types and confirmed as B\*35:17 (47%) and B\*39:01 (42%). Cw4 (59%) was reported as the sole C-locus type, with DNA labs assigning C\*04:01 (40%). C\*04:01:01 was assigned by 4 labs.

**Cell 1512.** The consensus type for this Filipino cell is A\*24:07(A24)-A\*26:01(A26)-B\*35:05(B35)-B\*40:01(B60)-C\*03:04(Cw3)-C\*04:01(Cw4). The likely haplotypes in this cell are A\*24:07-B\*35:05-C\*04:01 and A\*26:01-B\*40:01-C\*03:04, with respective frequencies of HF=0.00620 and HF=0.00126, in Asians.

This cell was previously typed as cells 1450 (2012) and 1416 (2010). In this retyping, A\*24:07 was assigned by 45%, a decrease from a detection level of 53% in 2012. B\*35:05 was assigned by 48%, a decrease from a detection level of 53% in 2012. The assignment of B\*40:01 also decreased, dropping from 55% in 2012 to 43% in this present retyping. B60 (93%) was assigned as the B40 split.

**Table 12. Summary of the 378th Cell Exchange (Cell #1509-1512)**

<b>DNA typing</b>							
<b>Cell 1509</b>		<b>Cell 1510</b>		<b>Cell 1511</b>		<b>Cell 1512</b>	
<u>41 labs</u>	% (n)	<u>41 labs</u>	% (n)	<u>38 labs</u>	% (n)	<u>40 labs</u>	% (n)
A*68:01:02	10(4)	A*01:01:01:01	5 (2)	A*02:01	40(15)	A*24:07	45(18)
A*68:01:02G	2 (1)	A*01:01:01:01G	2 (1)	A*02:01+	10(4)	A*24:07+	18(7)
A*68:01	27(11)	A*01:01:01	5 (2)	A*02	50(19)	A*24	37(15)
A*68:01+	17(7)	A*01:01	27(11)				
A*68	44(18)	A*01:01+	12(5)				
		A*01	49(20)				
A*68:02:01	7 (3)	A*68:03:01	10(4)	A*24:02	39(15)	A*26:01:01	10(4)
A*68:02	39(16)	A*68:03	34(14)	A*24:02+	11(4)	A*26:01	32(13)
A*68:02+	10(4)	A*68:03+	15(6)	A*24	50(19)	A*26:01+	8 (3)
A*68	44(18)	A*68	39(16)			A*26	50(20)
		A*36	2 (1)				
<u>41 labs</u>	% (n)	<u>41 labs</u>	% (n)	<u>38 labs</u>	% (n)	<u>41 labs</u>	% (n)
B*48:01:01	7 (3)	B*15:17:01	10(4)	B*35:17	47(18)	B*35:05:01	8 (3)
B*48:01	37(15)	B*15:17	42(17)	B*35:05+	8 (3)	B*35:05	40(16)
<i>B*48:06</i>	2 (1)	B*15:17+	17(7)	B*35	45(17)	B*35:05+	15(6)
B*48:01+	12(5)	B*15(B3)	12(5)			B*35	37(15)
B*48	42(17)	B*15	17(7)				
		B*35	2 (1)				
B*53:01:01	5 (2)	B*35:43:01	12(5)	B*39:01	42(16)	B*40:01	43(17)
B*53:01	34(14)	B*35:43	34(14)	B*39:59	3 (1)	B*40:01+	15(6)
B*53:01+	12(5)	B*35:43+	20(8)	B*39:01+	8 (3)	B*40(B60)	15(6)
B*53	49(20)	B*35	34(14)	B*39	47(18)	B*40	27(11)
<u>41 labs</u>	% (n)	<u>41 labs</u>	% (n)	<u>38 labs</u>	% (n)	<u>41 labs</u>	% (n)
C*04:01:01	10(4)	C*01:02:01	5 (2)	C*04:01:01	11(4)	C*03:04:01	5 (2)
C*04:01P	2 (1)	C*01:02	32(130)	C*04:01P	3 (1)	C*03:04	45(18)
C*04:01	27(11)	C*01:02+	15(6)	C*04:01	26(10)	C*03:04+	13(5)
C*04:04	2 (1)	C*01	49(20)	C*04:01+	8 (3)	C*03(Cw 10)	10(4)
C*04:01+	12(5)			C*04	53(20)	C*03	27(11)
C*04	46(19)						
C*08:01:01	7 (3)	C*07:01:02	7 (3)			C*04:01:01	5 (2)
C*08:01:01G	2 (10)	C*07:01:01G	2 (1)			C*04:01P	3 (1)
C*08:01	27(11)	C*07:01	29(12)			C*04:01	35(14)
C*08:33	2 (1)	C*07:01+	15(6)			C*04:01+	10(4)
<i>C*04:01</i>	2 (1)	C*07	46(19)			C*04	47(19)
C*08:01+	12(5)						
C*08	46(19)						

**Table 13: Summary of the 378th Cell Exchange (Cell #1509-1512)**

(Hispanic)	
<b>Cell 1509</b>	
(29 Samples Typed)	
A68	69.0%
A28	27.6%
	[96.6%]
B48	96.6%
B53	100.0%
CW4	51.7%
	[51.7%]
CW8	41.4%
BW4	93.1%
BW6	93.1%
Others Found	
A2	10.3%
CW7	3.4%
A10	3.4%
A33	3.4%
A26	3.4%
CW5	3.4%
B35	3.4%

(Hispanic)	
<b>Cell 1510</b>	
(30 Samples Typed)	
A1	100.0%
A68	80.0%
A28	20.0%
	[100.0%]
B35	96.7%
B63	86.7%
B15	13.3%
	[100.0%]
CW1	50.0%
CW7	56.7%
BW4	93.3%
BW6	90.0%
Others Found	
B16	3.3%
B53	3.3%
CW3	3.3%

(Hispanic)	
<b>Cell 1511</b>	
(29 Samples Typed)	
A2	100.0%
	[100.0%]
A24	100.0%
	[100.0%]
B35	100.0%
B39	100.0%
	[100.0%]
CW4	58.6%
	[58.6%]
BW6	93.1%
Others Found	
CW7	3.4%
BW4	3.4%
B16	3.4%

(Filipino)	
<b>Cell 1512</b>	
(29 Samples Typed)	
A24	100.0%
	[100.0%]
A26	100.0%
	[100.0%]
B35	100.0%
B60	93.1%
B40	6.9%
	[100.0%]
CW3	48.3%
CW10	6.9%
	[55.2%]
CW4	51.7%
	[51.7%]
BW6	93.1%
Others Found	

**Table 14. Individual laboratory results for Cell #1509**

Center	Investigator	HLA-A	HLA-B	HLA-C	Method			
16	Askar, Medhat	*68:01:02	*68:02:01	*48:01:01	*53:01:01	*04:01:01	*08:01:01	PCR-RSSO, SBT
774	Cecka, J. Michael	*68		*48:01/09/11+	*53:01/08/15+	*04	*08	SSP, SSOP
8070	Chang, Uckjin	*68		*48	*53	*04	*08	SSP
4492	Charron, D.	*68:01/37/41+	*68:02/62/64+	*48:01	*53:01/25/26+	*04:01/75/79+	*08:01/58/60+	PCR-SSO, SSP
798	Claas, F.H.J.	*68:01:02	*68:02:01	*48:01:01	*53:01:01	*04:01:01	*08:01:01	SBT
3632	Colombe, Beth	*68:01/39/57+	*68:02	*48:01	*53:01	*04:01	*08:01	SSO, SSP
5130	Costeas, Paul	*68:01	*68:02	*48:01	*53:01	*04:01	*08:01	SSP, SSO
779	Daniel, Claud	*68	*68	*48	*53	*04	*08	PCR-SSP, SSO
3766	Dunn, Paul	*68:01+	*68:02+	*48	*53	*04	*08	SSO
5214	Eckels/CPMC	*68	*68	*48	*53	*04	*08	SSO
762	Fischer, Gottfried	*68		*48	*53	*04	*08	SSO, SSP
4079	Fort, Marylise	*68:01	*68:02	*48:01/09	*53:01	*04:01	*08:01/20/22+	SSP HD, SSO
792	Gandhi, Manish	*68:01	*68:02	*48:01	*53:01	*04:01	*08:01	SSO, SSP
9002	Gideoni_LR	*68		*48	*53	*04	*08	SSO, SSP
810	Hamdi, Nuha	*68:01/07/11N+	*68:02/18N/28+	*48:01/09/11+	*53:01/05/10+	*04:01/05/07+	*04:01/05/07+	SSO
4269	Hanau, Daniel	*68:01/33/90+	*68:02	*48:01/09	*53:01	*04:01/09N/28+	*08:01/20/22+	RSSO
3808	Hogan, Patrick	*68		*48	*53	*04	*08	SSP
745	Holman, Richard	*68:01:02	*68:02:01	*48:01	*53:01/25/26	*04:01:01	*08:01:01	SSO, SSP, SBT
771	Israel, Shoshana	*68:01	*68:02	*48:01	*53:01	*04:01	*08:01	SSP
9003	Israel_LR	*68		*48	*53	*04	*08	PCR-SSO
859	Kamoun, Malek	*68:01	*68:02	*48:01	*53:01	*04:01	*08:01	SBT, SSP
4337	Kim, Tai-Gyu	*68:01	*68:02	*48:01	*53:01	*04:01	*08:01	SSP, SBT
725	Lardy, N.M.	*68		*48	*53	*04	*08	SSO, SSP
278	Lee, Jar-How	*68:01	*68:02	*48:01	*53:01	*04:01	*08:01	SSP, RSSO
6649	Lim, Young Ae	*68		*48	*53	*04	*08	SSP
274	Lo, Raymundo	*68	*68	*48:06	*53	*04:04	*08:33	SSO
731	Loewenthal, R	*68:01:02	*68:02	*48:01:01	*53	*04:01:01	*08:01	SBT, SSO
759	Lopez-Cepero	*68:01/07/11N+	*68:02/18N/28+	*48:01/09/11+	*53:01/05/10+	*04:01/05/07+	*08:01/08/20+	RSSO
23	Mah, Helen	*68:01	*68:02	*48:01	*53:01	*04	*08	PCR-SSO
8029	Mani, Rama	*68	*68	*48	*53	*04	*08	SSO
206	McAlack-Hanau	*68	*68	*48	*53	*04	*08	RSSO
54	Pancoska, Carol	*68		*48	*53	*04	*08	RSSOP
8001	Rao, Prakash	*68		*48	*53	*04	*08	RSSO
3625	Rees, Tracey	*68:01/11N	*68:02	*48:01	*53	*04:01	*08:01	PCR-SSP, SBT
5200	Reinke, Dennis	*68		*48	*53	*04	*08	SSP
3519	Renac, Virgie	*68:01	*68:02	*48:01	*53:01	*04:01	*08:01	SBT, PCR-SSP
1160	Rosen-Bronson	*68:01	*68:02	*48:01	*53:01	*04:01	*08:01	RSSO, SSP, SBT
793	Rubocki, Ronald	*68		*48	*53	*04	*08	SSP
4251	Schiller, Jennifer	*68:01:02G	*68:02	*48:01	*53:01	*04:01P	*08:01:01G	PCR-RSSO, SBT
5462	Turner, E.V.	*68:01	*68:02	*48:01	*53:01	*04:01/120	*08:01/72	SBT, SSO
3186	Watson, Narelle	*68	*68	*48	*53	*04	*08	SSO, SBT

**Table 15. Individual laboratory results for Cell #1510**

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
16	Askar,Medhat	*01:01:01	*68:03:01	*15:17:01	*35:43:01	*01:02:01	*07:01:02	PCR-RSSO,SBT
774	Cecka,J.Michael	*01	*68:03/04/31+	*15:17/162/168+	*35:43/67/79/102+	*01	*07	SSP,SSOP
8070	Chang,Uckjin	*01	*36	*15	*35	*01	*07	SSP
4492	Charron,D.	*01:01/67/74-79+	*68:03	*15:17/162/216/273	*35:43	*01:02/40/44+	*07:01/103/166+	PCR-SSO,SSP
798	Claas,F.H.J.	*01:01:01:01	*68:03:01	*15:17:01	*35:43:01	*01:02:01	*07:01	SBT
3632	Colombe,Beth	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SSO,SSP
5130	Costeas,Paul	*01:01	*68:03	*15:17	*35:43	*01:02/19	*07:01	SSP,SSO
779	Daniel,Claud	*01	*68	*15:17/162/177+	*35:43/67/79/102+	*01	*07	PCR-SSP,SSO
3766	Dunn,Paul	*01	*68:03/24/57+	*15:17/162/177+	*35:43/67/79/102+	*01	*07	SSO
5214	Eckels/CPMC	*01	*68	*15 (B63)	*35	*01	*07	SSO
762	Fischer,Gottfried	*01	*68	*15	*35	*01	*07	SSO,SSP
4079	Fort,Marylise	*01:01/128/129	*68:03/90	*15:17	*35:43/67/79/117	*01:02/25/40+	*07:01/06/16+	SSP HD,SSO
792	Gandhi,Manish	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SSO,SSP
9002	Gideoni_LR	*01	*68	*15	*35	*01	*07	SSO,SSP
810	Hamdi,Nuha	*01:01/01L/01N+	*68:03/24/57+	*15:17/162/177+	*35:43/67/79/102+	*01:02/07/11+	*07:01/06/16+	SSO
4269	Hanau,Daniel	*01:01/01L/01N+	*68:03/90	*15:17	*35:43/67/79/117	*01:02/25/40+	*07:01/06/16+	RSSO
3808	Hogan,Patrick	*01	*68	*15:17/162/168+	*35:43/67/79/86+	*01	*07:01+	SSP
745	Holman,Richard	*01:01:01:01	*68:03:01	*15:17:01	*35:43:01	*01:02	*07:01:02	SSO,SSP,SBT
771	Israel,Shoshana	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SSP
9003	Israel_LR	*01	*68	*15	*35	*01	*07	PCR-SSO
859	Kamoun,Malek	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SBT,SSP
4337	Kim,Tai-Gyu	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SSP,SBT
725	Lardy,N.M.	*01	*68	*15	*35	*01	*07	SSO,SSP
278	Lee,Jar-How	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SSP,RSSO
6649	Lim,Young Ae	*01	*68	*15 (B63)	*35	*01	*07	SSP
274	Lo,Raymundo	*01	*68	*35	*35	*01	*07	SSO
731	Loew enthal,R	*01:01:01	*68:03:01	*15:17	*35:43:01	*01:02	*07:01:02	SBT,SSO
759	Lopez-Cepero	*01:01/04N/09+	*68:03/24/57+	*15:17/162/177+	*35:43/67/79/102+	*01:02/07/11+	*07:01/06/16+	RSSO
23	Mah,Helen	*01	*68:03	*15:17	*35:43	*01	*07	PCR-SSO
8029	Mani,Rama	*01	*68	*15	*35	*01	*07	SSO
206	McAlack-Hanau	*01	*68	*15 (B63)	*35	*01	*07	RSSO
54	Pancoska,Carol	*01	*68	*15	*35	*01	*07	RSSOP
8001	Rao,Prakash	*01	*68	*15:17	*35	*01	*07	RSSO
3625	Rees,Tracey	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	PCR-SSP,SBT
5200	Reinke,Dennis	*01	*68	*15 (B63)	*35	*01	*07	SSP
3519	Renac,Virgie	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SBT,PCR-SSP
1160	Rosen-Bronson	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	RSSO,SSP,SBT
793	Rubocki,Ronald	*01	*68	*15 (B63)	*35	*01	*07	SSP
4251	Schiller,Jennifer	*01:01:01G	*68:03	*15:17	*35:43	*01:02	*07:01:01G	PCR-RSSO,SBT
5462	Turner,E.V.	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SBT,SSO
3186	Watson,Narelle	*01	*68	*15:17:01	*35:43:01	*01	*07	SSO,SBT

**Table 16. Individual laboratory results for Cell #1511**

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
16	Askar, Medhat	*02:01	*24:02	*35:17	*39:01	*04:01:01		PCR-RSSO, SBT
774	Cecka, J. Michael	*02	*24	*35	*39	*04		SSP, SSO
8070	Chang, Uckjin	*02	*24	*35	*39	*04		SSP
4492	Charron, D.	*02:01/241/256+	*24:02/135/150+	*35:17	*39:01/67/71+	*04:01/82/98+		PCR-SSO, SSP
798	Claas, F.H.J.	*02:01	*24:02	*35:17	*39:01	*04:01:01		SBT
3632	Colombe, Beth	*02:01	*24:02	*35:17	*39:01	*04:01		SSO, SSP
5130	Costeas, Paul	*02:01	*24:02	*35:17	*39:01	*04:01	*04:01	SSP, SSO
779	Daniel, Claud	*02	*24	*35	*39	*04		PCR-SSP, SSO
3766	Dunn, Paul	*02	*24	*35	*39	*04		SSO
5214	Eckels/CPMC	*02	*24	*35	*39	*04	*04	SSO
762	Fischer, Gottfried	*02	*24	*35	*39	*04		SSO, SSP
4079	Fort, Marylise	*02:01/407/410+	*24:02/02Q/09N+	*35:17	*39:01	*04:01		SSP HD, SSO
792	Gandhi, Manish	*02:01	*24:02	*35:17	*39:01	*04:01		SSO, SSP
9002	Gideoni_LR	*02	*24	*35	*39	*04		SSO, SSP
810	Hamdi, Nuha	*02:01/01L/01Q+	*24:02/02Q/03+	*35:01/17/32+	*39:01/01L/05+	*04:01/05/07+	*04:01/05/07+	SSO
4269	Hanau, Daniel	NT						RSSO
3808	Hogan, Patrick	*02	*24	*35:05+	*39	*04		SSP
745	Holman, Richard	*02:01	*24:02	*35:17	*39:01	*04:01:01		SSO, SSP, SBT
771	Israel, Shoshana	NT						SBT, SSP
9003	Israel_LR	NT						PCR-SSO
859	Kamoun, Malek	*02:01	*24:02	*35:17	*39:01	*04:01		SBT, SSP
4337	Kim, Tai-Gyu	*02:01	*24:02	*35:17	*39:01	*04:01		SSP, SBT
725	Lardy, N.M.	*02	*24	*35	*39	*04		SSO, SSP
278	Lee, Jar-How	*02:01	*24:02	*35:17	*39:01	*04:01		SSP, RSSO
6649	Lim, Young Ae	*02	*24	*35	*39	*04		SSP
274	Lo, Raymundo	*02	*24	*35	*35:59	*04	*04	SSO
731	Loewenthal, R	*02:01	*24:02	*35:17	*39:01	*04:01:01		SBT, SSO
759	Lopez-Cepero	*02:01/04/07+	*24:02/03/09N+	*35:01/17/32+	*39:01/05/07+	*04:01/05/07+		RSSO
23	Mah, Helen	*02	*24	*35:17	*39	*04	*04	PCR-SSO
8029	Mani, Rama	*02	*24	*35	*39	*04	*04	SSO
206	McAlack-Hanau	*02	*24	*35	*39	*04		RSSO
54	Pancoska, Carol	*02	*24	*35	*39	*04		RSSOP
8001	Rao, Prakash	*02	*24	*35	*39	*04		RSSO
3625	Rees, Tracey	*02:01	*24:02	*35:17	*39:01	*04		PCR-SSP, SBT
5200	Reinke, Dennis	*02	*24	*35	*39	*04		SSP
3519	Renac, Virgie	*02:01	*24:02	*35:17	*39:01	*04:01		SBT, PCR-SSP
1160	Rosen-Bronson	*02:01	*24:02	*35:17	*39:01	*04:01		RSSO, SSP, SBT
793	Rubocki, Ronald	*02	*24	*35	*39	*04		SSP
4251	Schiller, Jennifer	*02:01	*24:02	*35:17	*39:01	*04:01P	*04:01P	PCR-RSSO, SBT
5462	Turner, E.V.	*02:01	*24:02	*35:17	*39:01	*04:01		SBT, SSO
3186	Watson, Narelle	*02	*24	*35	*39	*04	*04	SSO, SBT



**Table 17. Individual laboratory results for Cell #1512**

Center	Investigator	HLA-A		HLA-B		HLA-C		Method
16	Askar,Medhat	*24:07	*26:01:01	*35:05:01	*40:01	*03:04	*04:01	PCR-RSSO,SBT
774	Cecka,J.Michael	*24:07/112/131	*26	*35:05/51/58+	*40	*03	*04	SSP,SSO
8070	Chang,Uckjin	*24	*26	*35	*40	*03	*04	SSP
4492	Charron,D.	*24:02/135/150+	*26:01/56/77+	*35:05	*40:01/100/134+	*03:04/100/105+	*04:01/75/79+	PCR-SSO,SSP
798	Claas,F.H.J.	*24:07	*26:01:01	*35:05:01	*40:01	*03:04:01	*04:01:01	SBT
3632	Colombe,Beth	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SSO,SSP
5130	Costeas,Paul	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SSP,SSO
779	Daniel,Claud	*24:07/112	*26	*35:05/89/97/114	*40 (B60)	*03:04	*04	PCR-SSP,SSO
3766	Dunn,Paul	*24:07/112	*26	*35:05/89/97/114	*40	*03	*04	SSO
5214	Eckels/CPMC	*24	*26	*35	*40 (B60)	*03 (CW10)	*04	SSO
762	Fischer,Gottfried	*24	*26	*35	*40	*03	*04	SSO,SSP
4079	Fort,Marylise	*24:07	*26:01	*35:05	*40:01/223/227+	*03:04	*04:01	SSP HD,SSO
792	Gandhi,Manish	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SSO,SSP
9002	Gideoni_LR	*24	*26	*35	*40	*03	*04	SSO,SSP
810	Hamdi,Nuha	*24:07/112	*26:01/10/15+	*35:05/89/97+	*40:01/22N43+	*03:04/05/07+	*04:01/04/05+	SSO
4269	Hanau,Daniel	NT						RSSO
3808	Hogan,Patrick	*24:07+	*26	*35:05+	*40:01+	*03:04+	*04	SSP
745	Holman,Richard	*24:07	*26:01:01	*35:05	*40	*03:04	*04:01	SSO,SSP,SBT
771	Israel,Shoshana	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SBT,SSP
9003	Israel_LR	*24	*26	*35	*40	*03	*04	PCR-SSO
859	Kamoun,Malek	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SBT,SSP
4337	Kim,Tai-Gyu	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SSP,SBT
725	Lardy,N.M.	*24	*26	*35	*40	*03	*04	SSO,SSP
278	Lee,Jar-How	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SSP,RSSO
6649	Lim,Young Ae	*24	*26	*35	*40 (B60)	*03	*04	SSP
274	Lo,Raymundo	*24	*26	*35	*40	*03	*04	SSO
731	Loew enthal,R	*24:07	*26:01:01	*35	*40:01	*03:04	*04:01:01	SBT, SSO
759	Lopez-Cepero	*24:07/112	*26:01/10/15+	*35:05/89/97+	*40:01/22N43+	*03:04/06/07+	*04:01/04/05+	RSSO
23	Mah,Helen	*24:07	*26	*35:05	*40:01	*03:04	*04	PCR-SSO
8029	Mani,Rama	*24	*26	*35	*40	*03	*04	SSO
206	McAlack-Hanau	*24	*26	*35	*40 (B60)	*03 (CW10)	*04	RSSO
54	Pancoska,Carol	*24	*26	*35	*40	*03	*04	RSSO P
8001	Rao,Prakash	*24	*26	*35	*40:01/22N43	*03:04/05/07+	*04	RSSO,SSP
3625	Rees,Tracey	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	PCR-SSP,SBT
5200	Reinke,Dennis	*24	*26	*35	*40 (B60)	*03 (CW10)	*04	SSP
3519	Renac,Virgie	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SBT,PCR-SSP
1160	Rosen-Bronson	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	RSSO,SSP,SBT
793	Rubocki,Ronald	*24	*26	*35	*40 (B60)	*03 (CW10)	*04	SSP
4251	Schiller,Jennifer	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01P	PCR-RSSO,SBT
5462	Turner,E.V.	*24:07	*26:01	*35:05	*40:01	*03:04	*04:01	SBT,SSO
3186	Watson,Narelle	*24	*26	*35:05:01	*40:01	*03:04:01	*04:01/09N30/82	SSO

**Table 18 . Individual laboratory results for Cell #1509-1512**

Investigator	Days Old	Cell No 1509 (Hispanic)									Cell No 1510 (Hispanic)									Cell No 1511 (Hispanic)							Cell No 1512 (Filipino)											
		Viab %	A68	B48	B53	Cw4	Cw8	Bw4	Bw6	OTHERS	Viab %	A1	A68	B35	B63	Cw1	Cw7	Bw4	B6	OTHERS	Viab %	A2	A24	B35	B39	Cw4	Bw6	OTHERS	Viab %	A24	A26	B35	B60	Cw3	Cw4	Bw6	OTHERS	
Alvarez, Carr		90	+		+			+	+	B35	90	+	+	+	+		+	+			90	+	+	+	+		+	BW4	90	+	+	+	+			+		
Askar, Medhat	2	95	+	+	+	+	+	+	+		95	+	+	+	+	+	+	+	+		95	+	+	+	+	+	+		95	+	+	+	+	+	+	+	+	
Cecka, J. Mic		95	+	+	+			+	+		95	+	+	+	+		+	+			95	+	+	+	+		+		95	+	+	+	+			+		
Charron, Domi		100	+	+	+			+	+		100	+	+	+	+		+	+			100	+	+	+	+		+		100	+	+	+	B40			+		
Claas, F.H.J.	6	90	A28	+	+	+		+	+	A2	90	+	+	+	+	+	+	+			90	+	+	+	+	+	+		90	+	+	+	+	+	+	+	+	
Dunk, Arthur	2	98	A28	+	+	+	+	+	+		98	+	A28	+	+	+	+	+			98	+	+	+	+	+	+	CW7	98	+	+	+	+	+	+	+	+	
Dunn, Paul		92	+	+	+			+	+		92	+	+	+	+		+	+			95	+	+	+	+		+		95	+	+	+	+			+		
Enczmann, J		95	+	+	+						80	+	+	+	+						95	+	+	+	+				85	+	+	+	+					
Esteves Kondo	3	98	+	+	+	+	+	+	+		98	+	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	w10	+	+		
Fort, Marylis	3	95	+	+	+			+	+		90	+	+	+	+		+	+			98	+	+	+	+		+		98	+	+	+	+			+		
Gideon, Osna		100	+	+	+	+	+				100	+	+	+	+	+	+				100	+	+	+	+	+			100	+	+	+	+	+	+	+		
Hahn, Amy B.	3	99	+	+	+	+	+	+	+		99	+	+	+	+	+	+	+	+		99	+	+	+	+	+	+	B16	95	+	+	+	+	+		+		
Hogan, Patric	10	0									50	+	+	+	+	+	+	+	+		50	+	+	+	+	+	+		50	+	+	+	+			+		
Holman, Richa	6	80	+	+	+			+	+		80	+	+	+	+		+	+			80	+	+	+	+		+		80	+	+	+	+	B40			+	
Keow n, Paul M	3	90	+	+	+			+	+		90	+	+	+	+	+	+	+			90	+	+	+	+	+	+		90	+	+	+	+			+		
Kvam, Vonnett		82	A28	+	+	+	+	+	+		90	+	A28	+	+	+	+	+			93	+	+	+	+	+	+		97	+	+	+	+	+	+	+	+	
Loew enthal MD		90	+	+	+	+	+	+	+		90	+	+	+	+	+	+	+	+		90	+	+	+	+	+	+		90	+	+	+	+	+	+	+	+	
Mah, Helen	2	98	+	+	+			+	+		98	+	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	+	+	+	+	
Meyer, Pieter		65	A28	+	+	+		+	+	A2>	60	+	A28	+	B15		+	+	+	CW3	60	+	+	+	+	+	+		60	+	+	+	+	+	+	+	+	
Norin, Allen		99	+	+	+			+	+	A10>	99	+	+	+	+		+	+			99	+	+	+	+	+	+		99	+	+	+	+			+		
Pancoska, Car		98	+	+	+	+	+	+	+		97	+	+	+	+	+	+	+	+		97	+	+	+	+	+	+		98	+	+	+	+	w10	+	+		
Permpikul, Ve	6	90	+	+	+			+	+		90	+	+	+	+		+	+			90	+	+	+	+	+	+		90	+	+	+	+			+		
Pollack, Mari	2	98	+	+	+	+		+	+		98	+	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	+	+	+	+	
Rees, Tracey	7	30	+	+	+	+	+	+	+		60	+	+	+	+	+	+	+	+		80	+	+	+	+	+	+		70	+	+	+	+	+	+	+	+	
Renac, Virgin	3	99	A28	+	+			+	+		99	+	A28	+	B15		+	+			99	+	+	+	+	+	+		99	+	+	+	+			+		
Rosen-Bronson		99	+	+	+	+	+	+	+		99	+	+	+	+	+	+	+	+		99	+	+	+	+	+	+		99	+	+	+	+	+	+	+	+	
Rubocki, Rona		98	A28	+	+	+	+	+	+		98	+	+	+	+	+	+	+	+		98	+	+	+	+	+	+		98	+	+	+	+	+	+	+	+	
Shai, Isaac	10	80		+	+			+	+	A2>	90	+	A28	+	B15		+	+	+	B16	91	+	+	+	+	+	+		92	+	+	+	+	+	+	+	+	
Vidan-Jeras,	6	90	A28	+	+	+		+	+		90	+	+	+	+		+	+	+		90	+	+	+	+	+	+		90	+	+	+	+			+		
Watson, Narel	10	45	A28	+	+			+	+		50	+	A28	+	B15		+		B53	50	+	+	+	+		+		50	+	+	+	+			+			

## Serum Exchange #536

The results for Serum Exchange #536 (sera 1137 – 1140) are summarized in Tables 19-23 and individual laboratory results by method are listed in Tables 29-37. Sera positive to A11 and A10 were examined in this study.

1137	method	#labs	A11	A26	A1	A31	A25	A3	A34	A66	A68	A29	A33	A2	A36	A80	A30	A69	A6601	A74	A23	A24	A1101	A43	A2403	A6602	A1102
	NIH-Std	4	100	75	25	25	25			25																	
	NIH-Ext	3	100	100	33	33	67	67	33	33									33								
	AHG	5	100	80	40	60	60	40	80	100	20	40	40	20	40	20											
	Luminex	30	87	100	100	100	97	100	97	73	97	93	97	97	93	90	90	93	43	97		27	27	93	43	40	27
	Flow	2	100	100	100	50	100	100	100		100	50	100	50			50					50	50				
	ELISA	2	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100							
	Other	4	75	100	50	75	100	75	100	25	50	50	50	50	25		50	25	50		25		25				

1137	method	#labs	DR1	DR4	DR10	DR14	DR15	DQ7	DQ8	DQ9	DQ4	DR51	DR13
	Luminex	21	76	76	76	76	76	71	71	71	71	57	43
	Other	2	50	100	50	50	50	100	100	100	50	50	50

**Sample 1137** was found to be strongly positive A11 and A26 by all methods. Additional reactivity to A1, A31, and A25 was also detected. Positivity to 10C specificities was reported by various methods, while ELISA and Luminex also reported reactivity to 1C specificities. Varied class II reactivity to a number of DR (DR1, DR4, DR10, DR13, DR14, DR15, DR51) and DQ (DQ4, DQ7, DQ8, DQ9) antigens was reported by Luminex and 1 other lab.

1138	method	#labs	A25	A26	A66	B57	A34	A11	A29	B38	B39	B63	B58	B55	B41	A1	A30	A36	A6601	A33	A68	A31
	NIH-Std	4	25	100																		
	NIH-Ext	3	100	100	67	67													33			
	AHG	5	100	100	100	60	40	40	20	20	20	20	60		20		20					
	Luminex	30	100	100	73	93	100	87	100	87	67	90	93	90	70	93	93	97	43	93	93	87
	Flow	2	100	50	50	100	100	100	50	100	50	100				50		50			50	
	ELISA	2	100	100	100	100	100	100	100	50	100	100	100	100	50							
	Other	4	100	75	25	50	50	50	50	50	25			50		25	25	25	50	25		25

  

1138	method	#labs	B42	B59	A23	A1101	A80	A43	B54	A69	B56	B67	A74	B8	B73	Cw18	A6602	Cw7	Cw6	B37	
	NIH-Std	4																			
	NIH-Ext	3																			
	AHG	5																			
	Luminex	30	84	68		26		87	87	84	77	74	74	61	58	48	42	42	39	32	
	Flow	2	50	50	50		100														
	ELISA	2																			
	Other	4			25	25															

1138	method	#labs	DR10	DR11	DR13	DR14	DR12	DQ7	DPw3	DQ9	DQ8
	Luminex	21	76	76	76	76	71	67	42	42	42
	Other	2	50	50	50	50	50	50	50	50	50

  

1138	method	#labs	DPw6	DQ6	DR52	DR7	DR17	DR18	DR9	DPw2	DPw4	DPw9
	Luminex	21	52	38	76	76	71	71	71	57	52	
	Other	2	50	50								50

For **sample 1138**, strong reactivity to A24 and A26 was detected by all methods. Additional reactivity to A66 and 1C specificities was reported by various methods. Luminex, flow, and ELISA also detected strong reactivity to a number of B-locus antigens (B38, B39, B57, B63). Reactivity to DR, DQ, and DP antigens was reported by Luminex and 1 other lab.

1139	method	#labs	A26	A25	A1	A34	A2	B13	A68	A66	B55	A11	B61	A36	A33	B27	B7	A29	A32	A69	B60	B18	B45	B38	B65
	NIH-Std	4	75	25																					
	NIH-Ext	3	100	100						33															
	AHG	5	80	60	20	60	40	20	20	60	20	40	20	20									20		
	Luminex	30	100	100	90	93	100	80	80	73	90	87	97	90	83	93	93	77		100	97	90		77	77
	Flow	2	100	100	100	100	100	100	100		100		100		100	100	100	100	100	100	100	100	100		
	ELISA	2	100	100	100	100	100	100	100	100	100	100													
	Other	4	100	75	75	25	50	50				75		25	50	50	50	25	25					50	50

  

1139	method	#labs	B8	B54	A80	B48	B42	A43	B47	B41	B73	Cw8	Cw5	B46	B67	B37	B64	B81	A10	A6601	B40	A1101	A23	
	NIH-Std	4																	25					
	NIH-Ext	3																		33				
	AHG	5																			20			
	Luminex	30	87	83	80	80	93	90	90	90	87	87	83	80	80	80	73	73						
	Flow	2		100	100	100																		
	ELISA	2																						
	Other	4	50																			25	25	

**Sample 1139** was found to be strongly positive to A25 and A26 by all methods. Additional reactivity to A1, A2, A34, A66, A68, B13, and B55 was reported by various methods. Luminex and Flow also detected strong reactivity to 7C specificities. Positivity to numerous DR and DQ antigens was reported by Luminex and 1 other lab.

1139	method	#labs	DR9	DR11	DR12	DR13	DR14	DR7	DR8	DR17	DR18	DQ9	DQ7	DQ8	DR53	DR10	DR103	DQ5	DR51	DQ6	DR1	DR4	
	Luminex	21	76	76	76	76	76	76	71	71	71	71	67	67	76	76	76	76	71	71	71	71	67
	Other	2	100	50	50	50	50	50	50	50	50	50	50	50									

1140	method	#labs	A25	B57	A26	B58	A32	A2	A29	A33	A34	A31	A68	A11	A66	A23	A74	A1101	A69	B63	A36	A6601	A43	A30	A24	B62	B75	B76	B77	A6602	A1	B13	A1102	A2403
	NIH-Std	4	50	50		50																												
	NIH-Ext	3	100	67	67	33	67								33			33																
	AHG	5	60	80	60	60	40	20	20	20	20	20	20	20	40																			
	Luminex	30	100	97	100	97	97	100	90	93	93	90	93	83	73	63	90	27	83	83	57	43	87	73	57	57	47	47	43	43	47	30	27	27
	Flow	2	100	100	100		100	100	100	100	100	100	100	50		50		50			50													
	ELISA	2	100	100	100	100	100	100	100	100	100	100	100	100	100	50	100		100	50														
	Other	4	100	100	75	75	75	50	25	50	50	25	50	25	25		25	25			25													

For **sample 1140**, reactivity to A25 and B57 was detected by all methods. Strong reactivity to A26, B58, and A32 was also detected by various methods. Luminex, flow, and ELISA reported additional reactivity to 1C, 2C, and 10C specificities. Luminex and 1 lab using PRA beads reported this serum as positive for DR7, DR9, DR12, DR52, DQ7, DQ8, and DQ9.

1140	method	#labs	DR7	DR9	DR12	DR52	DQ7	DQ8	DQ9
	Luminex	21	76	76	71	57	71	71	71
	Other	2	50	50	50	50	50	50	50

## Serum Exchange #537

The results for Serum Exchange #537 (sera 1141 – 1144) are summarized in Tables 24-28 and individual laboratory results by method are listed in Tables

38-47. Sera strongly positive to B5, B18, and B35 were examined in this second study.

**Sample 1141** was found to be strongly reactive to B18 by all methods. Anti-B35, B44, B51, B52, and B65 reactivity was detected by various methods. Additional strong positivity to 1C, 5C, and 8C specificities was reported by Luminex and ELISA. Luminex and 1 lab using NIH-Std detected anti-DR13

reactivity. Anti-DR1 reactivity was detected by Luminex, 1 lab using NIH-Ext, and 1 other lab. Luminex, along with 1 other lab, detected additional reactivity to a number of other DR and DQ antigens. Reactivity to some DP antigens was also reported by Luminex.

1141	method	#labs	B18	B51	B35	B52	B65	B44	B8	B53	B38	B39	B45	A23	A24	A3	A33	A68	B37	B64	B54	B78	A69	B55	
	NIH-Std	5	60	67	33	33	20	20			20	20	20					20							
	NIH-Ext	3	100																						
	AHG	5	100	40	20	20	60	20	20	20										40					
	Luminex	30	100	87	94	81	81	84	100	97	81	74	84	97	94	97	87	90	97	81	100	87	81	81	
	Flow	1	no consensus																						
	ELISA	2	100	100	100	100	100	100	100	100	100	100	100	100	100	50	100	100	100	100	100	100	50	100	
	Other	2	100	100	50	100	100	50	100	50	50	100	50	50	50	50	50		50						
1141	method	#labs	B59	B41	B42	B75	B7	B61	B71	A24	B27	B81	B76	A2	B73	B48	B67	B82	A34	B62	B72	B50	B77	A1	
	NIH-Std	5							20		20														
	NIH-Ext	3																							
	AHG	5								20															
	Luminex	30	81	77	77	77	71	71	74	94			87	87	81	77	77	77	77	74	74	71	71	71	
	Flow	1	no consensus																						
	ELISA	2	100	100	50	100	50	100			50	100													
	Other	2																							

1141	method	#labs	DQ6	DR1	DR10	DR11	DR13	DR16	DR14	DQ5	DR12	DR15	DR9	DQ4	DR8	DR7	DR103	DR51	DR52	DR17	DR18	DR53	DPw1	DQ7	DPw5	DPw4	DR4
	NIH-Std	4					25																				
	NIH-Ext	1	no consensus																								
	Luminex	22	82	82	82	82	82	82	82	77	77	77	77	77	77	77	73	73	73	73	68	68	55	55	50	50	50
	Other	1	no consensus																								

1142	method	#labs	B51	B18	B57	B53	B64	B52	B65	B35	A32	A3	A33	A23	B58	B59	A24	A25	B38	B75	B39	B78	B44	B49	
	NIH-Std	5	80	40			20							20					20	20					
	NIH-Ext	3	100	33	67	33	33	67	33																
	AHG	5	80	80	40	20	60	60	60	40	40	20	20		20						20	20			
	Luminex	30	100	100	97	97	81		84	94	94	100	97	97	97	81	97	97	94	77	58	87	84	84	
	Flow	1	no consensus																						
	ELISA	2	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	50	100	100	100	
	Other	2	100	50	50	100		100		100	50	50	50	50	50	50	50	50					50	50	

For **sample 1142**, reactivity to B51 and B18 was detected by all methods. Additional reactivity to B35, B52, B53, B57, B64, and B65 was reported by various methods. Luminex and ELISA were also strongly reactive to 10C and Bw4 specificities. Reactivity to DR15 and DR16 was detected by Luminex and 1 other lab.

1142	method	#labs	DR15	DR16	DPw3	DQ5	DQ6	DR51	DPw4
	Luminex	22	82	82	5	5	5	5	5
	Other	1	no consensus						

**Sample 1143**, was strongly reactive to B35, B51 and B52 by all methods. Reactivity to B49, B50, B52, B53, B57, and B58 was reported by various methods. Additional strong reactivity to 5C and 7C specificities, in addition to positivity to A-locus antigens (A25, A29, A32, A68, and A69), was detected by Luminex and ELISA. Strong reactivity to a number of DR antigens was reported by Luminex and 1 other lab.

1143	method	#labs	B35	B51	B52	B53	B49	B57	B58	B50	B54	B18	B56	B62	B63	B78	B59	B75	A25	A32	A68	A69	A29	B71	
	NIH-Std	5	80	60	20						20										20			20	
	NIH-Ext	3	100	100	67	67	67	33	33									33					33		
	AHG	5	100	100	40	100	40	40	20	60	20		40	40	20				20	20					
	Luminex	30	100	100	84	100	87	100	97	97	97	100	94	94	94	87	77	97	84	81	87	81	97	97	
	Flow	1	no consensus																						
	ELISA	2	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	50	100	100	
	Other	2	100	100	100	100	50	50	50	50		100				100	50				50	50			

  

1143	method	#labs	B72	B37	B46	B65	B38	B64	B8	A23	A2	A33	B13	B21	B39	B77	Cw9	A34	A43	Cw10	A24	B76	B41	A66	A11
	NIH-Std	5							20	20			20	20											
	NIH-Ext	3																							
	AHG	5												20											
	Luminex	30	97	90	84	81	77	77	87	71	71	74	71			90	84	84	81	81	74	74	71		
	Flow	1	no consensus																						
	ELISA	2	100	100	100	100	100	100							100									50	
	Other	2										50	50												50

1143	method	#labs	DR11	DR13	DR14	DR16	DR8	DR15	DR12	DR4	DR1	DR103	DR17	DR18	DR9	DR52	DR51	DR10	DR3	DQ6	DQ7	DQ8	DQ4	DQ5	DR1404	DR53	DQ9	
	Luminex	22	82	82	82	82	82	82	82	77	77	73	73	73	73	68	50	50	9	9	9	9	9	5	5	5	5	
	Other	1	no consensus																									

For **sample 1144**, strong reactivity to B5 (B51, B52) and B35 was reported by all methods. Additional reactivity to 5C specificities and A-locus antigens (A23, A24, A25, A32) was reported by various methods. Weak class II reactivity to DQ2, DQ4, DQ6, DQ8, and DQ9 was detected by Luminex.

1144	method	#labs	DQ6	DQ9	DQ2	DQ4	DQ8
	Luminex	22	14	14	5	5	5
	Other	1	no consensus				

1144	method	#labs	B51	B52	B35	B53	B49	B18	B57	B63	B78	A32	A23	A24	A25	B37	B38	B58	B75	B13	B50	B64	B71	
	NIH-Std	5	80	80	60	20																20		
	NIH-Ext	3	100	67	100	67	100	67	33	33									33					
	AHG	5	100	80	100	100	60	40	60	40	40	20					20							
	Luminex	30	97	97	100	97	94	97	94	94	84	94	94	94	94	90	87	100	90	84	81	71	90	
	Flow	1	no consensus																					
	ELISA	2	100	100	100	100	100	100	100	100	100	100	100	50	100	100	100	100	100	50	100	50	100	
	Other	2	100	100	100	100	100	100			100	50	50	50	50	50	50			50	50			
1144	method	#labs	B76	B59	B46	B65	B44	B48	B72	B77	B62	B56	B8	A80	A33	A1	A2	A68	A69	A2403	Cw9	Cw10		
	NIH-Std	5	20					20																
	NIH-Ext	3									33													
	AHG	5							20	20														
	Luminex	30	84	81	81	77	71	71	87	84	94	87	74	77	71	58	52	55	39	29	45	42		
	Flow	1																						
	ELISA	2		100	100	100																		
	Other	2					50																	

## References

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**Table 19 . Summary of the 536th Serum Exchange (Serum #1137-1140) by NIH-Standard and NIH-Extended - class I**

Method: NIH-Std											
*** Serum 1137 ***			*** Serum 1138 ***			*** Serum 1139 ***			*** Serum 1140 ***		
4 typing Labs			4 typing Labs			4 typing Labs			4 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A11	100%	100%	A26	75%	100%	A26	75%	17%	A25	50%	100%
A26	75%	71%	A10	25%	100%	A10	25%	100%	B57	50%	100%
A1	25%	100%	A25	25%	100%	A25	25%	100%	B58	50%	100%
A10	25%	100%	A3	25%	57%						
A31	25%	100%									
A66	25%	100%									
A25	25%	33%									

Method: NIH-Ext											
*** Serum 1137 ***			*** Serum 1138 ***			*** Serum 1139 ***			*** Serum 1140 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A11	100%	100%	A26	100%	100%	A26	100%	100%	A25	100%	100%
A26	100%	100%	A25	100%	55%	A25	100%	45%	B57	67%	100%
A3	67%	72%	A66	67%	100%	A66	33%	100%	A32	67%	77%
A25	67%	67%	B57	67%	100%	A6601	33%	100%	A26	67%	67%
A34	33%	100%	A6601	33%	100%				A66	33%	100%
A66	33%	100%							A74	33%	100%
A6601	33%	100%							B58	33%	100%
A31	33%	67%									
A1	33%	60%									



**Table 20 . Summary of the 536th Serum Exchange (Serum #1137-1140) by Antiglobulin and Other - class I**

<b>Method: Antiglobulin</b>												
<b>*** Serum 1137 ***</b>			<b>*** Serum 1138 ***</b>			<b>*** Serum 1139 ***</b>			<b>*** Serum 1140 ***</b>			
5 typing Labs			5 typing Labs			5 typing Labs			5 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
A11	100%	100%	A25	100%	83%	A26	80%	100%	B57	80%	100%	
A66	100%	83%	A26	100%	83%	A25	60%	100%	A25	60%	100%	
A26	80%	100%	A66	80%	100%	A34	60%	100%	A26	60%	100%	
A34	80%	100%	B57	60%	100%	A66	60%	75%	B58	60%	100%	
A25	60%	100%	B58	60%	60%	A11	40%	85%	A66	40%	100%	
A31	60%	100%	A34	40%	100%	A2	40%	79%	A32	40%	86%	
A1	40%	100%	A11	40%	67%	B13	20%	100%	A11	20%	100%	
A29	40%	100%	A29	20%	100%	B40	20%	100%	A28	20%	100%	
A3	40%	100%	B17	20%	100%	B45	20%	100%	A29	20%	100%	
A33	40%	100%	B38	20%	100%	B61	20%	100%	A33	20%	100%	
A36	40%	100%	B41	20%	100%	B55	20%	83%	A34	20%	100%	
A2	20%	100%	B63	20%	100%	A1	20%	75%	A2	20%	95%	

<b>Method: Other</b>												
<b>*** Serum 1137 ***</b>			<b>*** Serum 1138 ***</b>			<b>*** Serum 1139 ***</b>			<b>*** Serum 1140 ***</b>			
4 typing Labs			4 typing Labs			4 typing Labs			4 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
A25	100%	100%	A25	100%	100%	A26	100%	100%	A25	100%	100%	
A26	100%	100%	A26	75%	100%	A1	75%	100%	B57	100%	100%	
A34	100%	100%	A11	50%	100%	A11	75%	100%	A26	75%	100%	
A11	75%	100%	A29	50%	100%	A25	75%	100%	A32	75%	100%	
A3	75%	100%	A34	50%	100%	A2	50%	100%	B58	75%	100%	
A31	75%	100%	B38	50%	100%	A33	50%	100%	A2	50%	100%	
A1	50%	100%	B55	50%	100%	B13	50%	100%	A33	50%	100%	
A2	50%	100%	B57	50%	100%	B27	50%	100%	A34	50%	100%	
A29	50%	100%	A6601	50%	100%	B38	50%	100%	A68	50%	100%	
A30	50%	100%	A1	25%	100%	B65	50%	100%	A11	25%	100%	
A33	50%	100%	A1101	25%	100%	B7	50%	100%	A1101	25%	100%	
A6601	50%	100%	A23	25%	100%	B8	50%	100%	A23	25%	100%	
A68	50%	100%	A30	25%	100%	A1101	25%	100%	A29	25%	100%	
A1101	25%	100%	A31	25%	100%	A23	25%	100%	A31	25%	100%	
A23	25%	100%	A33	25%	100%	A29	25%	100%	A66	25%	100%	
A36	25%	100%	A36	25%	100%	A32	25%	100%	A6601	25%	100%	

**Table 21 . Summary of the 536th Serum Exchange (Serum #1137-1140) by Luminex - class I**

*** Serum 1137 ***		
30 typing Labs		
Antigen	Consensus	Inclusion
A1	97%	100%
A26	97%	100%
A3	97%	100%
A31	97%	100%
A2	94%	100%
A25	94%	100%
A33	94%	100%
A34	94%	100%
A68	94%	100%
A74	94%	100%
A29	90%	100%
A36	90%	100%
A43	90%	100%
A69	90%	100%
A80	87%	100%
A30	87%	94%
A11	84%	100%
A66	71%	100%
A2403	42%	100%
A6601	42%	100%
A6602	39%	100%
A1101	26%	100%
A1102	26%	100%
A24	26%	50%

*** Serum 1138 ***		
30 typing Labs		
Antigen	Consensus	Inclusion
A25	97%	100%
A26	97%	100%
A34	97%	100%
A29	94%	100%
B57	90%	100%
B58	90%	100%
A33	90%	94%
A30	90%	88%
A1	90%	80%
A68	90%	78%
A43	87%	100%
B54	87%	100%
B55	87%	100%
B63	87%	100%
A31	84%	100%
B42	84%	100%
A11	84%	95%
A36	84%	88%
A69	84%	86%
B38	81%	100%
B56	77%	78%
B67	74%	100%
A80	74%	86%
A74	74%	78%
A66	71%	100%
B41	68%	100%
B59	68%	100%
B39	65%	100%
B8	61%	100%
B73	58%	100%
CW18	48%	100%
A6601	42%	100%
A6602	42%	100%
CW7	42%	100%
CW6	39%	100%
B37	32%	100%

*** Serum 1139 ***		
30 typing Labs		
Antigen	Consensus	Inclusion
A2	97%	100%
A25	97%	100%
A26	97%	100%
A69	97%	100%
B60	94%	100%
B61	94%	100%
A34	90%	100%
B27	90%	100%
B42	90%	100%
B7	90%	100%
A1	87%	100%
A36	87%	100%
A43	87%	100%
B18	87%	100%
B47	87%	100%
B55	87%	100%
B41	87%	75%
A11	84%	100%
B73	84%	100%
B8	84%	100%
CW8	84%	94%
B54	81%	100%
CW5	81%	100%
A33	81%	93%
A80	77%	100%
B13	77%	100%
B46	77%	100%
B48	77%	100%
B67	77%	100%
B37	77%	86%
A68	77%	81%
B38	74%	100%
B65	74%	100%
A29	74%	94%
A66	71%	100%
B64	71%	100%

*** Serum 1140 ***		
30 typing Labs		
Antigen	Consensus	Inclusion
A2	97%	100%
A25	97%	100%
A26	97%	100%
A32	94%	100%
B57	94%	100%
B58	94%	100%
A33	90%	100%
A34	90%	100%
A68	90%	100%
A29	87%	100%
A31	87%	100%
A74	87%	100%
A43	84%	100%
A11	81%	100%
B63	81%	100%
A69	81%	88%
A66	71%	100%
A30	71%	62%
A23	61%	100%
A24	55%	100%
A36	55%	100%
B62	55%	100%
A1	45%	100%
B76	45%	100%
B75	45%	71%
A6601	42%	100%
A6602	42%	100%
B77	42%	100%
B13	29%	100%
A1101	26%	100%
A1102	26%	100%
A2403	26%	100%

**Table 22 . Summary of the 536th Serum Exchange (Serum #1137-1140) by Flow Cytometry and ELISA - class I**

<b>Method: Flow Cytometry</b>											
<b>*** Serum 1137 ***</b>			<b>*** Serum 1138 ***</b>			<b>*** Serum 1139 ***</b>			<b>*** Serum 1140 ***</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	100%	100%	A11	100%	100%	A1	100%	100%	A2	100%	100%
A11	100%	100%	A25	100%	100%	A2	100%	100%	A25	100%	100%
A25	100%	100%	A34	100%	100%	A25	100%	100%	A26	100%	100%
A26	100%	100%	B38	100%	100%	A26	100%	100%	A29	100%	100%
A3	100%	100%	B57	100%	100%	A29	100%	100%	A31	100%	100%
A33	100%	100%	A1	50%	100%	A32	100%	100%	A32	100%	100%
A34	100%	100%	A23	50%	100%	A33	100%	100%	A33	100%	100%
A68	100%	100%	A26	50%	100%	A34	100%	100%	A34	100%	100%
A2	50%	100%	A29	50%	100%	A68	100%	100%	A68	100%	100%
A23	50%	100%	A36	50%	100%	B13	100%	100%	B57	100%	100%
A24	50%	100%	A66	50%	100%	B18	100%	100%	A11	50%	100%
A29	50%	100%	A68	50%	100%	B27	100%	100%	A1101	50%	100%
A30	50%	100%	B39	50%	100%	B45	100%	100%	A23	50%	100%
A31	50%	100%	B42	50%	100%	B55	100%	100%	A36	50%	100%

<b>Method: ELISA</b>											
<b>*** Serum 1137 ***</b>			<b>*** Serum 1138 ***</b>			<b>*** Serum 1139 ***</b>			<b>*** Serum 1140 ***</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	100%	100%	A11	100%	100%	A1	100%	100%	A11	100%	100%
A11	100%	100%	A25	100%	100%	A11	100%	100%	A2	100%	100%
A2	100%	100%	A26	100%	100%	A2	100%	100%	A25	100%	100%
A25	100%	100%	A29	100%	100%	A25	100%	100%	A26	100%	100%
A26	100%	100%	A34	100%	100%	A26	100%	100%	A29	100%	100%
A29	100%	100%	A66	100%	100%	A34	100%	100%	A31	100%	100%
A3	100%	100%	A80	100%	100%	A66	100%	100%	A32	100%	100%
A30	100%	100%	B54	100%	100%	A68	100%	100%	A33	100%	100%
A31	100%	100%	B55	100%	100%	A69	100%	100%	A34	100%	100%
A33	100%	100%	B57	100%	100%	A80	100%	100%	A66	100%	100%
A34	100%	100%	B58	100%	100%	B13	100%	100%	A68	100%	100%
A66	100%	100%	B63	100%	100%	B48	100%	100%	A69	100%	100%
A68	100%	100%	B38	50%	100%	B54	100%	100%	A74	100%	100%
A69	100%	100%	B39	50%	100%	B55	100%	100%	B57	100%	100%
A74	100%	100%	B41	50%	100%	B60	100%	100%	B58	100%	100%
A80	100%	100%	B59	50%	100%	B61	100%	100%	A23	50%	100%
A36	50%	100%				B7	100%	100%	B63	50%	100%

**Table 23 . Summary of the 536th Serum Exchange (Serum #1137-1140) by Luminex and Other - class II**

<b>Method: Luminex</b>											
<b>*** Serum 1137 ***</b>			<b>*** Serum 1138 ***</b>			<b>*** Serum 1139 ***</b>			<b>*** Serum 1140 ***</b>		
21 typing Labs			21 typing Labs			21 typing Labs			21 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR1	76%	100%	DR10	76%	100%	DR13	76%	100%	DR7	76%	100%
DR10	76%	100%	DR11	76%	100%	DR53	76%	100%	DR9	76%	100%
DR15	76%	100%	DR13	76%	100%	DR9	76%	100%	DQ9	71%	100%
DR4	76%	100%	DR14	76%	100%	DR12	76%	94%	DQ7	71%	95%
DR14	76%	83%	DR52	76%	100%	DR11	76%	93%	DQ8	71%	92%
DQ7	71%	100%	DR7	76%	100%	DR14	76%	90%	DR12	71%	87%
DQ8	71%	100%	DR12	71%	100%	DR10	76%	86%	DR52	57%	60%
DQ9	71%	100%	DR17	71%	100%	DR103	76%	86%			
DQ4	71%	92%	DR18	71%	100%	DQ5	76%	76%			
DR51	57%	50%	DR9	71%	69%	DR7	76%	73%			
DR13	43%	83%	DQ7	67%	96%	DR51	71%	100%			
			DPW3	42%	100%	DQ9	71%	95%			
			DQ9	42%	87%	DQ6	71%	95%			
			DQ8	42%	74%	DR1	71%	93%			
			DPW2	57%	100%	DR17	71%	90%			
			DPW6	52%	100%	DR8	71%	89%			
			DPW4	52%	77%	DR18	71%	88%			
			DQ6	38%	33%	DR4	67%	100%			

<b>Method: Other</b>											
<b>*** Serum 1137 ***</b>			<b>*** Serum 1138 ***</b>			<b>*** Serum 1139 ***</b>			<b>*** Serum 1140 ***</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
DQ7	100%	100%	DQ6	50%	100%	DR9	100%	100%	DQ7	50%	100%
DQ8	100%	100%	DQ7	50%	100%	DQ7	50%	50%	DQ8	50%	100%
DQ9	100%	100%	DQ8	50%	100%	DQ8	50%	50%	DQ9	50%	100%
DR4	100%	100%	DQ9	50%	100%	DQ9	50%	50%	DR12	50%	100%
DQ4	50%	100%	DR10	50%	100%	DR11	50%	50%	DR52	50%	100%
DR1	50%	100%	DR11	50%	100%	DR12	50%	50%	DR7	50%	100%
DR10	50%	100%	DR12	50%	100%	DR13	50%	50%	DR9	50%	100%
DR13	50%	100%	DR13	50%	100%	DR14	50%	50%			
DR14	50%	100%	DR14	50%	100%	DR17	50%	50%			
DR15	50%	100%	DPW3	50%	100%	DR18	50%	50%			
DR51	50%	100%	DPW6	50%	100%	DR7	50%	50%			
			DPW9	50%	100%	DR8	50%	50%			

**Table 24 . Summary of the 537th Serum Exchange (Serum #1141-1144) by NIH-Standard and NIH-Extended - class I**

<b>Method: NIH-Standard</b>											
<b>*** Serum 1141 ***</b>			<b>*** Serum 1142 ***</b>			<b>*** Serum 1143 ***</b>			<b>*** Serum 1144 ***</b>		
5 typing Labs			5 typing Labs			5 typing Labs			5 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B18	60%	46%	B51	80%	88%	B35	80%	100%	B51	80%	100%
A68	20%	100%	B18	40%	100%	B51	60%	100%	B52	80%	78%
A74	20%	100%	B56	20%	100%	B21	20%	100%	B35	60%	40%
A80	20%	100%	B72	20%	100%	B52	20%	100%	B53	20%	100%
B27	20%	100%	A23	20%	67%	B54	20%	100%	B76	20%	100%
B38	20%	100%	B14	20%	67%	B13	20%	67%	A26	20%	67%
B39	20%	100%	B38	20%	50%	B60	20%	60%	B42	20%	60%
B44	20%	100%	B64	20%	50%	A68	20%	50%	A66	20%	50%
B56	20%	100%	B75	20%	50%	B27	20%	50%	B27	20%	50%
B65	20%	100%	A68	20%	33%	B71	20%	50%	B48	20%	50%
B45	20%	50%				B8	20%	50%	A29	20%	33%
B71	20%	50%				A23	20%	33%	B64	20%	33%
									B60	20%	20%

<b>Method: NIH-Extended</b>											
<b>*** Serum 1141 ***</b>			<b>*** Serum 1142 ***</b>			<b>*** Serum 1143 ***</b>			<b>*** Serum 1144 ***</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
B18	100%	100%	B51	100%	83%	B35	100%	100%	B35	100%	100%
B51	67%	80%	B57	67%	100%	B51	100%	100%	B49	100%	100%
B35	33%	100%	B52	67%	33%	B49	67%	100%	B51	100%	100%
B52	33%	100%	B14	33%	100%	B53	67%	100%	B18	67%	100%
			B53	33%	100%	B52	67%	67%	B52	67%	100%
			B64	33%	100%	B58	33%	100%	B53	67%	100%
			B65	33%	100%	B75	33%	100%	B57	33%	100%
			B18	33%	67%	A29	33%	50%	B62	33%	100%
						B57	33%	50%	B63	33%	100%
									B75	33%	100%

**Table 25 . Summary of the 537th Serum Exchange (Serum #1141-1144) by Antiglobulin and Other - class I**

<b>Method: Antiglobulin</b>												
<b>*** Serum 1141 ***</b>			<b>*** Serum 1142 ***</b>			<b>*** Serum 1143 ***</b>			<b>*** Serum 1144 ***</b>			
5 typing Labs			5 typing Labs			5 typing Labs			5 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
B18	100%	100%	B51	80%	100%	B35	100%	100%	B51	100%	100%	
B65	60%	100%	B18	80%	88%	B51	100%	100%	B53	100%	100%	
B51	40%	100%	B52	60%	100%	B53	100%	100%	B35	100%	77%	
B64	40%	100%	B64	60%	100%	B50	60%	100%	B52	80%	100%	
A24	20%	100%	B65	60%	100%	B49	40%	100%	B49	60%	100%	
B35	20%	100%	B57	40%	78%	B52	40%	100%	B57	60%	89%	
B52	20%	100%	B35	40%	62%	B56	40%	100%	B63	40%	100%	
B8	20%	80%	A32	40%	33%	B57	40%	100%	B78	40%	100%	
B44	20%	67%	A3	20%	100%	B62	40%	90%	B18	40%	94%	
B53	20%	60%	A33	20%	100%	A25	20%	100%	B21	20%	100%	
			B14	20%	100%	A32	20%	100%	B58	20%	100%	
			B39	20%	100%	B21	20%	100%	B72	20%	100%	
			B78	20%	100%	B54	20%	100%	B77	20%	100%	
			B58	20%	88%	B58	20%	100%	A32	20%	67%	
			B53	20%	86%	B63	20%	100%	B70	20%	50%	

<b>Method: Other</b>												
<b>*** Serum 1141 ***</b>			<b>*** Serum 1142 ***</b>			<b>*** Serum 1143 ***</b>			<b>*** Serum 1144 ***</b>			
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs			
B18	100%	100%	B35	100%	100%	B18	100%	100%	B18	100%	100%	
B39	100%	100%	B51	100%	100%	B35	100%	100%	B35	100%	100%	
B51	100%	100%	B52	100%	100%	B51	100%	100%	B49	100%	100%	
B52	100%	100%	B53	100%	100%	B52	100%	100%	B51	100%	100%	
B65	100%	100%	A23	50%	100%	B53	100%	100%	B52	100%	100%	
B8	100%	100%	A24	50%	100%	B78	100%	100%	B53	100%	100%	
A23	50%	100%	A25	50%	100%	A11	50%	100%	B78	100%	100%	
A24	50%	100%	A3	50%	100%	A2	50%	100%	A23	50%	100%	
A3	50%	100%	A32	50%	100%	A33	50%	100%	A24	50%	100%	
A33	50%	100%	A33	50%	100%	A68	50%	100%	A25	50%	100%	
B35	50%	100%	B18	50%	100%	A69	50%	100%	A32	50%	100%	
B37	50%	100%	B44	50%	100%	B49	50%	100%	B13	50%	100%	
B38	50%	100%	B49	50%	100%	B50	50%	100%	B37	50%	100%	
B44	50%	100%	B57	50%	100%	B57	50%	100%	B38	50%	100%	
B45	50%	100%	B58	50%	100%	B58	50%	100%	B44	50%	100%	
B53	50%	100%	B59	50%	100%	B59	50%	100%	B50	50%	100%	

**Table 26 . Summary of the 537th Serum Exchange (Serum #1141-1144) by Luminex - class I**

*** Serum 1141 ***		
30 typing Labs		
Antigen	Consensus	Inclusion
B18	100%	100%
B54	100%	100%
B8	100%	100%
A23	97%	100%
A3	97%	100%
B37	97%	100%
B53	97%	100%
A24	94%	100%
B35	94%	100%
A68	90%	100%
B51	87%	100%
B76	87%	100%
B78	87%	100%
A2	87%	94%
A33	87%	94%
B44	84%	100%
B45	84%	100%
A69	81%	100%
B38	81%	100%
B52	81%	100%
B55	81%	100%
B59	81%	100%
B64	81%	100%
B65	81%	100%
B73	81%	100%
B41	77%	100%
B42	77%	100%
B48	77%	100%
B67	77%	100%
B82	77%	100%
B75	77%	100%
A34	77%	100%
B39	74%	100%
B62	74%	100%
B72	74%	100%
B71	74%	100%
B50	71%	100%

*** Serum 1142 ***		
30 typing Labs		
Antigen	Consensus	Inclusion
A3	100%	100%
B18	100%	100%
B51	100%	100%
B73	100%	100%
A23	97%	100%
A24	97%	100%
A25	97%	100%
A33	97%	100%
B53	97%	100%
B57	97%	100%
B58	97%	100%
A32	94%	100%
B35	94%	100%
B38	94%	100%
B27	94%	77%
A34	90%	100%
B37	90%	100%
B63	90%	100%
B47	87%	100%
B54	87%	100%
B78	87%	100%
B8	87%	90%
B44	84%	100%
B49	84%	100%
B52	84%	100%
B65	84%	100%
B59	81%	100%
B64	81%	100%
B77	81%	100%
B75	77%	100%
B13	77%	93%
A69	77%	100%
A68	77%	94%
B71	71%	86%
A31	68%	100%
B39	58%	83%
CW4	55%	100%

*** Serum 1143 ***		
30 typing Labs		
Antigen	Consensus	Inclusion
B18	100%	100%
B35	100%	100%
B51	100%	100%
B53	100%	100%
B57	100%	100%
A29	97%	100%
B50	97%	100%
B54	97%	100%
B58	97%	100%
B71	97%	100%
B72	97%	100%
B75	97%	100%
B56	94%	100%
B62	94%	100%
B63	94%	100%
B77	90%	100%
B37	90%	88%
A68	87%	100%
B49	87%	100%
B78	87%	100%
B8	87%	100%
A25	84%	100%
B46	84%	100%
B52	84%	100%
CW9	84%	100%
A34	84%	62%
A32	81%	100%
A43	81%	100%
A69	81%	100%
B65	81%	100%
CW10	81%	100%
B38	77%	100%
B59	77%	100%
B64	77%	100%
A33	74%	100%
B76	74%	100%
A24	74%	94%

*** Serum 1144 ***		
30 typing Labs		
Antigen	Consensus	Inclusion
B35	100%	100%
B58	100%	100%
B18	97%	100%
B51	97%	100%
B52	97%	100%
B53	97%	100%
A23	94%	100%
A24	94%	100%
A25	94%	100%
A32	94%	100%
B49	94%	100%
B57	94%	100%
B62	94%	100%
B63	94%	100%
B37	90%	100%
B71	90%	100%
B75	90%	100%
B38	87%	100%
B56	87%	100%
B72	87%	100%
B76	84%	100%
B77	84%	100%
B78	84%	100%
B13	84%	93%
B50	81%	100%
B59	81%	100%
B46	81%	88%
A80	77%	100%
B65	77%	100%
B8	74%	90%
B64	71%	100%
B48	71%	83%
B44	71%	64%
A33	71%	62%
A1	58%	100%
A2	52%	73%
CW9	45%	100%

**Table 27 . Summary of the 537th Serum Exchange (Serum #1141-1144) by Flow Cytometry and Elisa - class I**

<b>Method: Flow Cytometry</b>												
<b>*** Serum 1141 ***</b>			<b>*** Serum 1142 ***</b>			<b>*** Serum 1143 ***</b>			<b>*** Serum 1144 ***</b>			
1 typing Labs			1 typing Labs			1 typing Labs			1 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
	no consensus			no consensus			no consensus			no consensus		

<b>Method: Elisa</b>												
<b>*** Serum 1141 ***</b>			<b>*** Serum 1142 ***</b>			<b>*** Serum 1143 ***</b>			<b>*** Serum 1144 ***</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	
A23	100%	100%	A23	100%	100%	A29	100%	100%	A23	100%	100%	
A24	100%	100%	A24	100%	100%	B18	100%	100%	A25	100%	100%	
A68	100%	100%	A25	100%	100%	B35	100%	100%	A32	100%	100%	
B18	100%	100%	A3	100%	100%	B37	100%	100%	B35	100%	100%	
B37	100%	100%	A32	100%	100%	B38	100%	100%	B37	100%	100%	
B38	100%	100%	B13	100%	100%	B39	100%	100%	B38	100%	100%	
B39	100%	100%	B18	100%	100%	B46	100%	100%	B46	100%	100%	
B41	100%	100%	B37	100%	100%	B49	100%	100%	B49	100%	100%	
B45	100%	100%	B38	100%	100%	B50	100%	100%	B50	100%	100%	
B51	100%	100%	B47	100%	100%	B51	100%	100%	B51	100%	100%	
B52	100%	100%	B49	100%	100%	B52	100%	100%	B52	100%	100%	
B53	100%	100%	B51	100%	100%	B53	100%	100%	B53	100%	100%	
B54	100%	100%	B52	100%	100%	B54	100%	100%	B54	100%	100%	
B55	100%	100%	B53	100%	100%	B56	100%	100%	B56	100%	100%	
B59	100%	100%	B54	100%	100%	B57	100%	100%	B57	100%	100%	
B61	100%	100%	B57	100%	100%	B58	100%	100%	B58	100%	100%	
B64	100%	100%	B58	100%	100%	B59	100%	100%	B59	100%	100%	
B65	100%	100%	B59	100%	100%	B62	100%	100%	B62	100%	100%	
B75	100%	100%	B63	100%	100%	B63	100%	100%	B63	100%	100%	
B78	100%	100%	B64	100%	100%	B64	100%	100%	B64	100%	100%	
B8	100%	100%	B65	100%	100%	B65	100%	100%	B65	100%	100%	
B81	100%	100%	B75	100%	100%	B71	100%	100%	B71	100%	67%	
A33	100%	75%	B78	100%	100%	B72	100%	100%	A24	50%	50%	
B35	100%	75%	B35	100%	75%	B75	100%	100%	B13	50%	50%	
B44	100%	75%	B44	100%	75%	B78	100%	100%	B64	50%	50%	
A3	50%	100%	A33	100%	50%	A25	50%	100%				
A69	50%	100%	A69	50%	100%	A32	50%	100%				
B27	50%	100%	B39	50%	100%	A66	50%	100%				



**Table 28 . Summary of the 537th Serum Exchange (Serum #1141-1144) by NIH-Std, NIH-Ext, Luminex, and Others - class II**

Method: NIH-Standard											
<b>*** Serum 1141 ***</b>			<b>*** Serum 1142 ***</b>			<b>*** Serum 1143 ***</b>			<b>*** Serum 1144 ***</b>		
4 typing Labs			4 typing Labs			4 typing Labs			4 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR13	25%	100%	no antigens assigned			no antigens assigned			no antigens assigned		

Method: NIH-Extended											
<b>*** Serum 1141 ***</b>			<b>*** Serum 1142 ***</b>			<b>*** Serum 1143 ***</b>			<b>*** Serum 1144 ***</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 antigens assigned			no antigens assigned			no antigens assigned		

Method: Luminex											
<b>*** Serum 1141 ***</b>			<b>*** Serum 1142 ***</b>			<b>*** Serum 1143 ***</b>			<b>*** Serum 1144 ***</b>		
22 typing Labs			22 typing Labs			22 typing Labs			22 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ6	82%	100%	DR15	82%	100%	DR11	82%	100%	DQ6	14%	100%
DR1	82%	100%	DR16	82%	100%	DR13	82%	100%	DQ9	14%	100%
DR10	82%	100%	DPW3	5%	100%	DR14	82%	100%	DQ2	5%	100%
DR11	82%	100%	DQ5	5%	100%	DR16	82%	100%	DQ4	5%	100%
DR13	82%	100%	DQ6	5%	100%	DR8	82%	100%	DQ8	5%	100%
DR16	82%	100%	DR51	5%	100%	DR15	82%	94%			
DR14	82%	94%	DPW4	5%	50%	DR12	82%	93%			
DQ5	77%	100%				DR4	77%	100%			
DR12	77%	100%				DR1	77%	92%			
DR15	77%	100%				DR103	73%	100%			
DR9	77%	100%				DR17	73%	100%			
DQ4	77%	96%				DR18	73%	100%			
DR8	77%	88%				DR9	73%	91%			
DR7	77%	80%				DR52	68%	97%			
DR103	73%	100%				DR51	50%	83%			
DR51	73%	100%				DR10	50%	80%			

Method: Other											
<b>*** Serum 1141 ***</b>			<b>*** Serum 1142 ***</b>			<b>*** Serum 1143 ***</b>			<b>*** Serum 1144 ***</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 antigens assigned		

**Table 29 . Individual laboratory results for Serum #1137-1140 by NIH-Extended and NIH-Standard**

	**** Serum 1137 ****						**** Serum 1138 ****						**** Serum 1139 ****						**** Serum 1140 ****						
Investigator	% POS	A11	A26	A25	A10	Other	% POS	A26	A25	A10	Other	% POS	A26	A25	A10	Other	% POS	A25	B57	B58	Other	Method			
Claas, F.H.J.	46	+	+				46	+	+		A3	12	+	+			25	+				STD			
Fort, Marylise		+	+			A66		+					+						+	+		STD			
Hogan, Patrick		+	+	+			8	+				2	+					+				STD			
Suciu-Foca, Nicole	15	+			+	A1>	25			+	A10	15			+		6		+	+		STD			

	**** Serum 1137 ****							**** Serum 1138 ****							**** Serum 1139 ****						**** Serum 1140 ****						
Investigator	% POS	A11	A26	A3	A25	A34	Other	% POS	A26	A25	A66	B57	A6601	Other	% POS	A26	A25	A66	A6601	Other	% POS	A25	B57	A32	A26	Other	Method
Askar, Medhat Z. I	40	+	+	+			A6601	31	+	+			+		23	+	+		+		20	+	+	+		A74>	EXT
Dunn, Paul	62	+	+	+	+	+	A34>	31	+	+	+	+			15	+	+				43	+	+	+	+	A66	EXT
Lardy, N.M.	22	+	+		+		A66	13	+	+	+				7	+	+	+			19	+			+		EXT

**Table 30 . Individual laboratory results for Serum #1137-1140 by Antiglobulin and Other**

Investigator	**** Serum 1137 ****													**** Serum 1138 ****								Method		
	% POS	A11	A66	A26	A34	A25	A31	A1	A29	A3	A33	A36	Other	% POS	A25	A26	A66	B57	B58	A34	A11		Other	
Cecka, J. Michael I	93	+	+	+	+	+	+	+	+	+	+		A2	60	+	+	+	+	+	+	+		B55>	AHG
Gandhi, Manish M		+	+	+	+	+									+	+	+	+	+					AHG
Hahn, Amy B. PhD		+	+	+	+	+	+		+	+	+	+	A68>		+	+		+	+		+			AHG
Mah, Helen	31	+	+											21	+	+	+							AHG
Suciu-Foca, Nicole	25	+	+	+	+	+	+	+						57	+	+	+			+			B17	AHG

Investigator	**** Serum 1139 ****										**** Serum 1140 ****								Method								
	% POS	A26	A25	A34	A66	A11	A2	Other	% POS	B57	A25	A26	B58	A66	A32	Other											
Cecka, J. Michael I	68	+	+	+	+	+	+										B61>	78	+	+	+	+	+	+		A11>	AHG
Gandhi, Manish M		+																	+	+							AHG
Hahn, Amy B. PhD		+	+	+	+	+													+		+		+				AHG
Mah, Helen	32																										AHG
Suciu-Foca, Nicole	40	+	+	+	+		+										B40	15	+	+	+	+	+			A28	AHG

Investigator	**** Serum 1137 ****													**** Serum 1138 ****										Method			
	% POS	A25	A26	A34	A11	A3	A31	A1	A2	A29	A30	A33	A6601	A68	Other	% POS	A25	A26	A11	A29	A34	B38	B55		B57	A6601	Other
Alvarez, Carretto		+	+	+		+	+	+	+	+	+	+		+	A23>		+			+	+	+	+	+		A23>	OTH
Dunk, Arthur		+	+	+	+								+				+	+	+						+		OTH
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+		+	A66>		+	+	+	+	+	+	+	+		A66>	OTH_PRA
Phelan, Donna		+	+	+	+	+	+						+		A43		+	+							+		OTH_C1q

Investigator	**** Serum 1139 ****													**** Serum 1140 ****										Method			
	% POS	A26	A1	A11	A25	A2	A33	B13	B27	B38	B65	B7	B8	Other	% POS	A25	B57	A26	A32	B58	A2	A33	A34		A68	Other	
Alvarez, Carretto		+	+		+	+	+	+	+	+	+	+	+	B40>		+	+	+	+		+	+	+	+		A29>	OTH
Dunk, Arthur		+		+		+								B51>		+	+	+	+	+						B50>	OTH
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	B60>		+	+	+	+	+	+	+	+	+		A11>	OTH_PRA
Phelan, Donna		+	+	+	+									Cw 8>		+	+			+							OTH_C1q

**Table 31 . Individual laboratory results for Serum #1137**

		**** Serum 1137 ****																										
Investigator	% POS	A1	A26	A3	A31	A2	A25	A33	A34	A68	A74	A29	A36	A43	A69	A80	A30	A11	A66	A2403	A6601	A6602	A1101	A1102	A24	Other	Method	
Askar, Medhat Z. I	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+		A203	LMX	
Askar/WV,	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+					LMX
Berka, Noureddine		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Cecka, J. Michael I	83	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203	LMX
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+	B56,B46	LMX
Gandhi, Manish M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Gideoni, Osnat	96	+	+	+	+	+				+	+	+			+	+		+				+				B50,B51,A23,B57 >	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+		LMX
Hamdi, Nuha	93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+		LMX
Hardy, Steven PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+		LMX
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	B56	LMX	
Klein, Tirza	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Loewenthal MD, R	96	+	+	+	+	+	+	+	+			+		+				+				+	+			B60,B61,B49,B50 >	LMX	
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B56	LMX	
Martinho, Antonio		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+		LMX
McAlack-Hanau,	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
McCluskey, James		+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+		+	+	+	+	A203,A10,A28,A210	LMX	
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+			LMX
Permpikul, Vejbaes		+	+	+	+		+	+	+	+	+	+	+					+	+							B60,B78,B49,B50 >	LMX	
Pham, Tabary/ Reu	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	A203	LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Suciu-Foca, Nicole		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	A10C	LMX	
Vidan-Jeras, Blanka	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					B56	LMX	

**Table 32 . Individual laboratory results for Serum #1138**

		**** Serum 1138 ****																																									
Investigator	% POS	A25	A26	A34	A29	B57	B58	A33	A30	A1	A68	A43	B54	B55	B63	A31	B42	A11	A36	A69	B38	B56	B67	A80	A74	A66	B41	B59	B39	B8	B73	CW18	A6601	A6602	CW7	CW6	B37	Other	Method				
Askar, Medhat Z. I	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	A1101,A1102>	LMX	
Askar/WV,	78	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Berka, Nouredine		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Cecka, J. Michael I	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+			+											LMX	
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A3,A1101>	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A3,CW15	LMX	
Gandhi, Manish M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Gideoni, Osnat	84	+	+	+	+	+		+	+	+	+								+	+	+															+	+				B65	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Hamdi, Nuha	75	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Hardy, Steven PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B3901	LMX
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Holdsworth, Rhon		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A3,CW15	LMX	
Klein, Tirza	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Lardy, N.M.		+	+	+															+									+														LMX	
Loewenthal MD, R	90	+	+	+	+		+	+		+	+	+				+	+	+		+		+				+					+					+	+				B52,B53,A3>	LMX	
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B7,A32,A3>	LMX
Martinho, Antonio		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A32,A3,B65>	LMX	
McAlack-Hanau,	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
McCluskey, James		+	+	+	+	+	+		+		+	+	+	+	+	+	+	+	+									+									+	+				A1101,A1102	LMX
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Permpikul, Vejbaes		+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+								+			+	+										B60,B48,B13>	LMX
Pham, Tabary/ Reu	73	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A1101,A1102>	LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A1101,A1102	LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Suciu-Foca, Nicole		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A1101,A1102>	LMX	
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A10C,A1101>	LMX	
Vidan-Jeras, Blant	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A3	LMX	

**Table 33. Individual laboratory results for Serum #1139**

		*** Serum 1139 ***																																											
Investigator	% POS	A2	A25	A26	A69	B60	B61	A34	B27	B42	B7	A1	A36	A43	B18	B47	B55	B41	A11	B73	B8	CW8	B54	CW5	A33	A80	B13	B46	B48	B67	B37	A68	B38	B65	A29	A66	B64	B81	CW10	Other	Method				
Askar, Medhat	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A203>	LMX		
Askar/WV,	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B78>	LMX	
Berka, Nouredc		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B78>	LMX	
Cecka, J. Micha	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B45,B39>	LMX	
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A203>	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B45,B39>	LMX	
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,CW6>	LMX	
Gandhi, Manish		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B45,B39>	LMX	
Gideoni, Osnat	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B62>	LMX		
Hahn, Amy B. F		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B78>	LMX	
Hamdi, Nuha	85	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B45,B39>	LMX	
Hardy, Steven		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B45>	LMX	
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Holdsworth, R		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B62>	LMX	
Klein, Tirza	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101>	LMX		
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Loewenthal, M	88	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B50,B45>	LMX	
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,CW6>	LMX
Martinho, Ant		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,CW6>	LMX
McAlack-Hana	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B39	LMX	
McCluskey, Jar		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW403,A20	LMX	
Pancoska, Car		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B50>	LMX	
Permpikul, Ve		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B62>	LMX	
Pham, Tabary/	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A203>	LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B45>	LMX	
Ramon, Daniel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B45,B39>	LMX
Rosen-Bronso		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B39,B59>	LMX
Suciu-Foca, Ni		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B50>	LMX
Turner, E.V. Ph		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B39,B8101>	LMX
Vidan-Jeras, B	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B78>	LMX

**Table 34 . Individual laboratory results for Serum #1140**

		*** Serum 1140 ***																																			
Investigator	% POS	A2	A25	A26	A32	B57	B58	A33	A34	A68	A29	A31	A74	A43	A11	B63	A69	A66	A30	A23	A24	A36	B62	A1	B76	B75	A6601	A6602	B77	B13	A1101	A1102	A2403	Other	Method		
Askar, Medhat Z. I	100	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203	LMX		
Askar/WV,	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+					CW15	LMX	
Berka, Noureddine		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+												LMX	
Cecka, J. Michael I	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+														LMX	
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	LMX	
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+					CW6,A3,B46,CW16 >	LMX
Gandhi, Manish M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Gideoni, Osnat	86	+	+	+	+	+		+	+	+	+	+	+		+									+				+	+						B35	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+						LMX	
Hamdi, Nuha	85	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+													LMX	
Hardy, Steven PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		CW6,B67,B46,CW16 >	LMX
Klein, Tirza	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Lardy, N.M.		+	+	+	+	+	+								+			+																		LMX	
Loewenthal MD, R	90	+	+	+	+		+	+	+	+	+	+	+	+	+													+	+							B52,B53,B7,B56 >	LMX
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,CW16,CW15	LMX
Martinho, Antonio		+	+	+	+	+	+											+																		LMX	
McAlack-Hanau,	85	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,A210	LMX
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Permpikul, Vejbaes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,B50,B51,B52 >	LMX
Pham, Tabary/ Reu	85	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203	LMX
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Suciu-Foca, Nicole		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A10C	LMX
Vidan-Jeras, Blanka	40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX





**Table 36. Individual laboratory results for Serum #1137-1138 by Luminex and Other - class II**

Investigator	**** Serum 1137 ****													**** Serum 1138 ****													Method									
	% POS	DR1	DR10	DR15	DR4	DR14	DQ7	DQ8	DQ9	DQ4	DR51	DR13	Other	% POS	DR10	DR11	DR13	DR14	DR52	DR7	DR12	DR17	DR18	DR9	DQ7	DPW3		DQ9	DQ8	DPW2	DPW6	DPW4	DQ6	Other		
Askar, Medhat Z. I	100	+	+	+	+	+	+	+	+	+	+	+	DR17	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Other	LMX
Askar/WV,	98	+	+	+	+	+	+	+	+	+	+	+	DR17	78	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPW1	LMX	
Cecka, J. Michael I	83	+	+	+	+	+	+	+	+	+	+			97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX	
Gideoni, Osnat	96													84																					LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
Hamdi, Nuha	93													75																					LMX	
Hogan, Patrick		+	+	+	+	+					+	+	DQ3		+	+	+	+	+	+				+		+			+	+	+	+	DR3,DR4,DQ3	LMX		
Klein, Tirza	27													29																					LMX	
Loewenthal MD, R	96													90																					LMX	
McAlack-Hanau,	98	+	+	+	+	+	+	+	+	+				76	+	+	+	+	+	+		+	+	+	+										LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+		DR1404		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR3,DR4>	LMX		
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	DQ2		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Permpikul, Vejbæs		+	+	+	+	+	+	+	+		+		DR103,DR7,DR8>		+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	DR103,DR8>		LMX		
Pham, Tabary/ Reu	96													73																					LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+		DQ2		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+		DQ2		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Vather, Nelson/		+	+	+	+	+	+	+	+	+	+	+	DR17		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR4,DPW1	LMX	
Vidan-Jeras, Blani	29	+	+	+	+	+	+	+	+	+	+	+	DR17,DR18,DQ2>	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX

Investigator	**** Serum 1137 ****											**** Serum 1138 ****											Method												
	% POS	DQ7	DQ8	DQ9	DR4	DQ4	DR1	DR10	DR13	DR14	DR15	DR51	Other	% POS	DQ6	DQ7	DQ8	DQ9	DR10	DR11	DR12	DR13		DR14	DR17	DR18	DR52	DR7	DR9	DPW3	DPW6	DPW9	DPW17	Other	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	+	+	+	+	+	+	+	+								OTH_PRA
Phelan, Donna		+	+	+	+																							+	+	+	+			OTH_C1q	

**Table 37. Individual laboratory results for Serum #1139-1140 by Luminex and Other - class II**

Investigator	**** Serum 1139 ****																	**** Serum 1140 ****							Method									
	% POS	DR13	DR53	DR9	DR12	DR11	DR14	DR10	DR103	DQ5	DR7	DR51	DQ9	DQ6	DR1	DR17	DR8	DR18	DR4	DR52	DQ7	DQ8	DQ4	Other		% POS	DR7	DR9	DQ9	DQ7	DQ8	DR12	DR52	Other
Askar, Medhat Z. I	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Other	100	+	+	+	+	+	+	+		LMX
Askar/WV,	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		99	+	+	+	+	+	+	+	DPW1,DPW5,DPW6	LMX
Cecka, J. Michael I	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		63	+	+	+	+	+	+		LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+			LMX	
Gideoni, Osnat	100																								86								LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ2		+	+	+	+	+	+		LMX	
Hamdi, Nuha	85																								85								LMX	
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+		+	+		+		+	+					DR3,DQ3,DPW3		+	+			+	+	DQ3	LMX	
Klein, Tirza	43																								31								LMX	
Loewenthal MD, R	88																									90								LMX
McA lack-Hanau,	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			85	+	+	+	+	+	+		LMX
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR3,DR1404		+	+	+	+	+	+	+		LMX
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ2		+	+	+	+	+	+	+		LMX
Permpikul, Vejbaes		+	+	+	+	+	+	+	+	+	+	+				+		+					+	DR15,DR16,DQ2 >		+	+	+	+	+		DR4,DR8,DR15,DR17 >	LMX	
Pham, Tabary/ Reu	87																								85								LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+		LMX
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+		LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+		LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+		LMX
Vather, Nelson/		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPW3		+	+	+	+	+	+	+	DQ2	LMX
Vidan-Jeras, Blant	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR15,DQ2,DPW3 >	40	+	+	+	+	+	+	+	DR4,DQ2	LMX

Investigator	**** Serum 1139 ****													**** Serum 1140 ****							Method												
	% POS	DQ7	DQ8	DQ9	DR11	DR12	DR13	DR14	DR17	DR18	DR7	DR8	DR9	Other	% POS	DQ7	DQ8	DQ9	DR12	DR52		DR7	DR9	Other									
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+				+	+	+	+	+	+		OTH_PRA
Phelan, Donna													+																				OTH_C1q

**Table 38 . Individual laboratory results for Serum #1141-1144 by NIH-Standard and NIH-Extended**

Investigator	**** Serum 1141 ****					**** Serum 1142 ****					**** Serum 1143 ****					**** Serum 1144 ****					Method			
	% POS	B18			Other	% POS	B51	B18			Other	% POS	B35	B51			Other	% POS	B51	B52		B35		Other
Claas, F.H.J.	75				B44,A68 >	17	+	+			B14	22	+	+			B52	29	+	+	+			STD
Esteves-Kondo, D	21				B27,B45 >	15					B75,B56 >	18					B60,B13 >	21		+			B60,B48 >	STD
Hogan, Patrick		+					+						+	+					+	+	+			STD
Suciu-Foca, Nicole	17	+				18	+	+				25	+				B21	30	+		+		B53	STD
Watson, Narelle	11%	+				9	+					23	+	+				18	+	+				STD

Investigator	**** Serum 1141 ****						**** Serum 1142 ****								**** Serum 1143 ****							**** Serum 1144 ****							Method				
	% POS	B18	B51	B35	B52	Other	% POS	B51	B57	B52	B14	B53	B64	B65	Other	% POS	B35	B51	B49	B53	B52	B58	Other	% POS	B35	B49	B51	B18		B52	B53	B57	Other
Askar, Medhat Z. I	6	+					9	+		+						37	+	+	+	+	+			43	+	+	+	+	+	+			EXT
Dunn, Paul		+	+	+	+	B35,B52		+	+	+			+	+			+	+	+		+				+	+	+	+	+	+	B62,B63	EXT	
Lardy, N.M.		+	+				31	+	+		+	+			B18	39	+	+				+	B75,A29,B57	35	+	+	+		+		B75	EXT	

**Table 39. Individual laboratory results for Serum #1141-1144 by Antiglobulin and Other**

Investigator	**** Serum 1141 ****							**** Serum 1142 ****							**** Serum 1143 ****							**** Serum 1144 ****							Method												
	% POS	B18	B65	B51	B64		Other	% POS	B51	B18	B52	B64	B65	B57	B35	A32	Other	% POS	B35	B51	B53	B50	B49	B52	B56	B57	B62	Other		% POS	B51	B53	B35	B52	B49	B57	B63	B78	B18	Other	
Cecka, J. Michael	57	+	+	+	+		B44 >	58	+	+	+	+	+	+	+		B78 >	73	+	+	+	+	+	+	+	+	+	B70 >	63	+	+	+	+	+	+	+	+	+	B70 >	AHG	
Gandhi, Manish M		+							+	+	+						B53 >		+	+	+	+						B75 >		+	+	+	+	+	+	+	+	+		B77 >	AHG
Hahn, Amy B. PhI		+	+						+	+	+	+	+	+	+		B53 >		+	+	+	+	+	+	+	+		B75 >		+	+	+	+	+	+	+	+	+		B77 >	AHG
Mah, Helen	22	+	+		+			21				+	+					47	+	+	+							B63	31	+	+	+	+						B72	AHG	
Suciu-Foca, Nicol	12	+		+			A24	32	+	+						+	A33 >	56	+	+	+						B21	42	+	+	+			+					B21	AHG	

Investigator	**** Serum 1141 ****							**** Serum 1142 ****							**** Serum 1143 ****							**** Serum 1144 ****							Method													
	% POS	B18	B39	B51	B52	B65	B8	Other	% POS	B35	B51	B52	B53					Other	% POS	B18	B35	B51	B52	B53	B78						Other	% POS	B18	B35	B49	B51	B52	B53	B78			Other
Dunk, Arthur		+	+	+	+	+	+			+	+	+	+							+	+	+	+	+	+					+	+	+	+	+	+	+	+					OTH
Phelan, Donna		+	+	+	+	+	+	A24 >		+	+	+	+					A24 >		+	+	+	+	+	+				A11 >	+	+	+	+	+	+	+	+				A24 >	OTH

**Table 40. Individual laboratory results for Serum #1141 by Luminex**

Investigator	**** Serum 1141 ****																											Method												
	% POS	B18	B54	B8	A23	A3	B37	B53	A24	B35	A68	B51	B76	B78	A2	A33	B44	B45	A69	B38	B52	B55	B59	B64	B65	B73	B41		B42	B48	B67	B82	B75	A34	B39	B62	B72	B71	Other	
Askar, Medhat Z. I	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B60,B61 >	LMX	
Askar/WV,	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,A66 >	LMX	
Berka, Nouredine		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,A66 >	LMX	
Cecka, J. Michael I	85	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,B50 >	LMX	
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A203,B60 >	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,A66 >	LMX	
Esteves-Kondo, D	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A66,B50 >	LMX		
Gandhi, Manish M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A11,B60 >	LMX	
Gideoni, Osnat	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B60,B49 >	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,A66 >	LMX	
Hamdi, Nuha	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,A66 >	LMX	
Hardy, Steven PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A66,A1 >	LMX
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Holdsworth, Rhon		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,A66 >	LMX
Klein, Tirza	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Lardy, N.M.		+	+	+			+																																LMX	
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B60,B61 >	LMX
Martinho, Antonio		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,B50,B7 >	LMX
McAlack-Hanau,	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B77	LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,A210 >	LMX	
Meyer, Pieter Wa	77	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,A2C	LMX	
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,A66 >	LMX
Permpikul, Vejbae		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B49,B50 >	LMX	
Pham, Tabary/ Reu	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B60,B61 >	LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,B7,A1,A29 >	LMX
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,B49 >	LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,A66 >	LMX
Suciu-Foca, Nicole		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B61,B49 >	LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Vidan-Jeras, Blan	68	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B60,B61 >	LMX

**Table 41. Individual laboratory results for Serum #1142 by Luminex**

**** Serum 1142 ****																																									
Investigator	% POS	A3	B18	B51	B73	A23	A24	A25	A33	B53	B57	B58	A32	B35	B38	B27	A34	B37	B63	B47	B54	B78	B8	B44	B49	B52	B65	B59	B64	B77	B75	B13	A69	A68	B71	A31	Other	Method			
Askar, Medhat Z. I	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,A2403,B7801 >	LMX		
Askar/WV,	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B60,B39	LMX		
Berka, Nouredine		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B60,B61,B39	LMX		
Cecka, J. Michael I	85	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B39	LMX		
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B60,B61,B7 >	LMX		
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B39,BW4,A2403	LMX		
Esteves-Kondo, D	46	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A29,B39	LMX		
Gandhi, Manish M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,A11,B60,B61 >	LMX		
Gideoni, Osnat	88	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B60,B48,B55,B67 >	LMX		
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B61,B39	LMX	
Hamdi, Nuha	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B39	LMX	
Hardy, Steven PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B39,BW4,BW6	LMX	
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Holdsworth, Rhon		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B60,B61,A66 >	LMX	
Klein, Tirza	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Lardy, N.M.		+	+	+	+				+	+										+			+															B14	LMX		
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B60,B61,B50 >	LMX
Martinho, Antonio		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,CW6,B60,B61 >	LMX
McAlack-Hanau,	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403	LMX	
Meyer, Pieter Wa	5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15	LMX	
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B39	LMX
Permpikul, Vejbaes		+	+	+	+	+	+	+	+		+	+	+			+				+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	B60,A66,B7,A26 >	LMX	
Pham, Tabary/ Reu	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B61,A29,A30 >	LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B39	LMX
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,A2403,B7801 >	LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B61,B39,BW4	LMX
Suciu-Foca, Nicole		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B60,B61,A29 >	LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Vidan-Jeras, Blan	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B60,B61,B50 >	LMX

**Table 42. Individual laboratory results for Serum #1143 by Luminex**

**** Serum 1143 ****																																									
Investigator	% POS	B18	B35	B51	B53	B57	A29	B50	B54	B58	B71	B72	B75	B56	B62	B63	B77	B37	A68	B49	B78	B8	A25	B46	B52	CW9	A34	A32	A43	A69	B65	CW10	B38	B59	B64	Other	Method				
Askar, Medhat Z. I	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A2,B48,B13 >	LMX			
Askar/WV,	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,A11,A24,A2 >	LMX			
Berka, Nouredine		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,CW6,A11,A24 >	LMX			
Cecka, J. Michael I	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A66,B13 >	LMX			
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,A11,A24,A2 >	LMX		
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A2,B48 >	LMX		
Esteves-Kondo, D	61	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A2,A66 >	LMX			
Gandhi, Manish M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,CW6,A11,A24 >	LMX		
Gideoni, Osnat	90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A2,B61,B48 >	LMX		
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,A11,A24,A2 >	LMX		
Hamdi, Nuha	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A2,B48 >	LMX		
Hardy, Steven PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A2,B48 >	LMX	
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
Holdsworth, Rhon		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,CW6,A11,A24 >	LMX	
Klein, Tirza	22	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW3	LMX		
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,CW6,A24,A203 >	LMX	
Martinho, Antonio		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,CW6,A11,A24 >	LMX	
McAlack-Hanau,	88	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,A33,B76,B39	LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Meyer, Pieter Wa	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,B15,CW3	LMX	
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A2,B48 >	LMX	
Permpikul, Vejbaes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A66,B44,B55 >	LMX	
Pham, Tabary/ Reu	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,A24,A203,A2 >	LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A2,B48 >	LMX	
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,A24,A2,B48 >	LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A24,A2,B48 >	LMX
Suciu-Foca, Nicole		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,A24,A2,B48 >	LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B39	LMX
Vidan-Jeras, Blani	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,CW6,A11,A24 >	LMX

**Table 43. Individual laboratory results for Serum #1144 by Luminex**

**** Serum 1144 ****																																							
Investigator	% POS	B35	B58	B18	B51	B52	B53	A23	A24	A25	A32	B49	B57	B62	B63	B37	B71	B75	B38	B56	B72	B76	B77	B78	B13	B50	B59	B46	A80	B65	B8	B64	B48	B44	A33	Other	Method		
Askar, Medhat Z. I	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,A2,A1,A68 >	LMX	
Askar/WV,	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A1,A68,A69 >	LMX	
Berka, Nouredine		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A1,A68,A69 >	LMX	
Cecka, J. Michael I	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Dunn, Paul		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,A2,B47,A1 >	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A1,A2403	LMX	
Esteves-Kondo, D	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A1	LMX		
Gandhi, Manish M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,B47,A1,A68 >	LMX	
Gideoni, Osnat	88	+	+	+		+	+	+	+	+	+		+	+				+																		A2,A29,A30,A36 >	LMX		
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A1,CW10,CW9	LMX	
Hamdi, Nuha	82	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A1,A68,CW10 >	LMX	
Hardy, Steven PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	BW4,BW6	LMX	
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A68,A69	LMX	
Holdsw orth, Rhon		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,B47,A1,A68 >	LMX	
Klein, Tirza	72	+	+	+	+	+				+		+		+	+	+	+								+										+	B60,A66,B47,B45 >	LMX		
Lardy, N.M.		+	+		+		+								+										+													LMX	
Mah, Helen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,A2,B47,A1 >	LMX
Martinho, Antonio		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW9	LMX
McAlack-Hanau,	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B54,A2403	LMX
Meyer, Pieter Wa	2	+	+	+	+	+	+	+	+	+	+	+	+	+			+			+	+				+												B15	LMX	
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A1	LMX
Permpikul, Vejbaes		+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+			+			+	+	+	+		+					+	+	CW4,A11,A66,B47 >	LMX	
Pham, Tabary/ Reu	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B47,A1,A68 >	LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A1,A68,A69 >	LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	BW4	LMX
Suciu-Foca, Nicole		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A1,A68,A69 >	LMX
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Vidan-Jeras, Blan	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,A1,A29,A68 >	LMX





**Table 45. Individual laboratory results for Serum #1141 and #1144 by NIH-Standard and NIH-Extended - class II**

	**** Serum 1141 ****			**** Serum 1142 ****			**** Serum 1143 ****			**** Serum 1144 ****			
Investigator	% POS	DR13	Other	% POS	no antigens assigned	Other	% POS	no antigens assigned	Other	% POS	no antigens assigned	Other	Method
Claas, F.H.J.	75	+											STD
Esteves-Kondo, D	21												STD
Suciu-Foca, Nicole	17												STD
Watson, Narelle	11												STD

	**** Serum 1141 ****			**** Serum 1142 ****			**** Serum 1143 ****			**** Serum 1144 ****			
Investigator	% POS	DR1	Other	% POS	no antigens assigned	Other	% POS	no antigens assigned	Other	% POS	no antigens assigned	Other	Method
Askar, Medhat Z. I	6	+											EXT

**Table 46. Individual laboratory results for Serum #1141 and #1142 by Luminex and Other - class II**

		**** Serum 1141 ****																				**** Serum 1142 ****													
Investigator	% POS	DQ6	DR1	DR10	DR11	DR13	DR16	DR14	DQ5	DR12	DR15	DR9	DQ4	DR8	DR7	DR103	DR51	DR52	DR17	DR18	DR53	DPW1	DQ7	DPW5	DPW4	DR4	DPW2	DQ2	Other	% POS	DR15	DR16	Other	Method	
Askar, Medhat Z. I	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			98	+	+		LMX	
Askar/WV,	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			98	+	+		LMX	
Cecka, J. Michael I	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							26	+	+		LMX		
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+								+	+		LMX	
Esteves-Kondo, D	49																												46				LMX		
Gideoni, Osnat	100																												88				LMX		
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ9			+	+		LMX	
Hamdi, Nuha	89																												76				LMX		
Hogan, Patrick		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+				+			+			DR2,DR3			+	+		LMX	
Klein, Tirza	23	+	+	+	+	+	+	+		+		+		+	+	+				+	+					+			23	+	+		LMX		
McAlack-Hanau,	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+						95	+	+		LMX		
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+		DR1404			+	+		LMX	
Meyer, Pieter Wa	77	+	+	+	+	+	+	+	+		+	+	+	+	+											+	+	DR3,DR5,DR6	5	+	+		LMX		
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ8,DQ9,DPW6			+	+		LMX	
Permpikul, Vejbaes		+	+	+	+	+	+	+	+	+		+				+	+	+	+		+		+				+	DQ9			+	+	DR51,DQ5,DPW3,DQ6	LMX	
Pham, Tabary/ Reu	96																												89					LMX	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR2			+	+		LMX	
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ9			+	+		LMX	
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+		LMX	
Turner, E.V. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+		LMX	
Vather, Nelson/		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPW3,DPW6			+	+		LMX	
Vidan-Jeras, Blan	68	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			54	+	+	DPW4		LMX

		**** Serum 1141 ****														**** Serum 1142 ****																		
Investigator	% POS	DQ5	DQ6	DR1	DR10	DR103	DR11	DR12	DR13	DR15	DR16	DR51	DR52	DR9														Other	% POS	DR15	DR16	Other	Method	
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+																+	+			OTH

**Table 47. Individual laboratory results for Serum #1143 and #1144 by Luminex and Other - class II**

Investigator	**** Serum 1143 ****															**** Serum 1144 ****						Method				
	% POS	DR11	DR13	DR14	DR16	DR8	DR15	DR12	DR4	DR1	DR103	DR17	DR18	DR9	DR52	DR51	DR10	Other	% POS	DQ6	DQ9		DQ2	DQ4	DQ8	Other
Askar, Medhat Z. I	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		99							LMX
Askar/WV,	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		99							LMX
Cecka, J. Michael I	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		0							LMX
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Esteves-Kondo, D	61																		39							LMX
Gideoni, Osnat	90																		88							LMX
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+									LMX
Hamdi, Nuha	98																		82							LMX
Hogan, Patrick		+	+	+	+	+	+	+	+	+				+	+	+	+	DR3								LMX
Klein, Tirza	22	+	+	+	+	+	+	+	+	+	+	+	+						72	+	+	+	+	+		LMX
McAlack-Hanau,	88	+	+	+	+	+	+	+	+	+	+	+	+						98							LMX
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1404			+					LMX
Meyer, Pieter Wa	27	+	+	+	+	+	+	+	+	+				+				DR3	2	+						LMX
Pancoska, Carol P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Permpikul, Vejbaes		+	+	+	+	+	+	+	+		+	+	+		+	+		DR53,DQ4,DQ5,DQ7 >								LMX
Pham, Tabary/ Reu	98																		89							LMX
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX
Ramon, Daniel PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX
Turner, E.V. PhD		+	+	+	+	+	+		+	+	+	+	+	+												LMX
Vather, Nelson/		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Vidan-Jeras, Blani	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQ4,DQ7,DQ8,DQ9 >	54							LMX

Investigator	**** Serum 1143 ****											**** Serum 1144 ****					Method										
	% POS	DR11	DR12	DR13	DR14	DR15	DR16	DR17	DR18	DR4	DR52	DR8	DR9	no specificities assigned													
Phelan, Donna		+	+	+	+	+	+	+	+	+	+	+															OTH