

SERUM EXCHANGE #571 NOVEMBER 26, 2019

Sera	1277-1280
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The results for **Serum Exchange 571 (sera 1277 - 1280)**, are summarized in Tables 14 - 19 and individual laboratory results by method are listed

in Tables 20 - 30. Sera strongly positive to B13, A29, A9 (A23, A24), and to a number of DR and DP specificities were observed in this study.

1277	method	#labs	NEG	B27	B48	B8	B59	B73	B65	B7	B2708	B46	B81	B82	B38	B64	Cw8	B56	B61	B42	B13	B60	B71
class I	NIH-Ext	2	100%																				
	AHG	1	NEG																				
	Luminex	26		96%	50%	46%	42%	42%	38%	38%	35%	35%	35%	35%	31%	27%	27%	19%	19%	15%	12%	12%	12%
	Flow	3	no specificities assigned																				
	C1q	1	NEG																				
	Other	1	undetermined																				

1277	method	#abs	NEG	DP19	DP28	DR8	DP15	DP10	DP20	DR1	DR12	DR16	DR14	DR4	DR52	DR15
class II	NIH-Ext	1	undetermined													
	Luminex	27	40%	60%	60%	60%	60%	55%	55%	55%	55%	55%	55%	50%	50%	40%
	Flow	3	no specificities assigned													
	Other	1	NEG													
1277	method	#abs	DR17	DR18	DR11	DR9	DP13	DQ2	DQ4	DQ6	DR13	DPw5	DQ8	DR51	DPA1*01	DPA1*03
	Luminex	27	40%	40%	40%	40%	40%	40%	35%	30%	30%	30%	30%	25%	20%	20%

Labs reporting by NIH-Extended, Antiglobulin, and C1q each reported **Serum 1277** as negative for class I. However, class I antibodies were detected by Luminex-single antigen, as anti-B27 *(3568) reactivity was reported by 96%. Allele specific B*27:08 reactivity was reported by some (37%) Luminex labs. The reporting of class II specificities in this sample was mixed

among labs. Luminex-PRA and C1q reported it as negative for class II, along with 40% of labs reporting by Luminex-SAB. The remaining 60% of Luminex-SAB labs, reported weak reactivity to a number of class II specificities, including DR8 (1778), DP19 (4364), DP15 (2678), and DP28 (2326).

*(median MFI)

1278	method	#labs	B13	B27	B2708	B60	B61	B55	B47	B48	B7	B41	B67	B73	B62	B81	B8101	B38	B39	B3901	B8	B76	B75	B42	B72	
class I	NIH-Ext	2	50%			50%	50%	50%																		
	AHG	1	no consensus																							
	Luminex	25	100%	100%	44%	100%	100%	80%	96%	96%	96%	96%	96%	96%	92%	92%	24%	92%	80%	28%	84%	88%	84%	84%	76%	
	Flow	3	no specificities assigned																							
	C1q	1	no consensus																							
	Other	1	no consensus																							
1278	method	#labs	Cw2	B50	B77	A66	A6602	B56	B71	B49	B18	B35	B54	B64	B45	B59	Cw17	B52	B37	B703	B78	B82	B15	B65		
class I	Luminex	25	72%	68%	64%	60%	44%	56%	56%	52%	44%	44%	44%	42%	40%	40%	40%	36%	28%	20%	20%	20%	20%	20%		

1278	method	#labs	DR11	DR7	DPw1	DPw3	DPw5	DPw6	DP11	DP18	DP28	DPw2	DR53	DP13	DP14
class II	NIH-Ext	1	undetermined												
	Luminex	26	100%	100%	96%	96%	96%	96%	92%	92%	92%	92%	92%	88%	88%
	Flow	3	no specificities assigned												
	Other	1	no consensus												
1278	method	#labs	DP17	DP19	DP9	DR9	DP10	DP20	DPw4	DP402	DPA1*02	DP15	DPA1*03	DPA1*04	
	Luminex	26	88%	88%	88%	88%	67%	67%	63%	46%	25%	21%	17%	17%	

For **Serum 1278**, anti-B13 (12754), -B60 (9203), and -B61 (9772) reactivity was reported by all methods, except Flow. Additional reactivity to B38 (2235) and B39 (2220), as well as reactivity to a number of Bw6 and 5C specificities, was reported by Luminex-SAB. One lab reporting by C1q also

detected reactivity to a number of C-locus specificities. Strong anti-DR7 (14110) reactivity, along with reactivity to DR11 (3682) was detected by Luminex-SAB and Luminex-PRA. Additional reactivity to a number of DP antigens was also reported by Luminex-SAB.

1279	method	#abs	A29	A43	B44	B45	B76	A31	A33	A25	A26	A30	A34	B82	B8201	A66	A6601	A6602	A1	A80	B42	B41	A23	A36	B15
class I	NIH-Ext	2	50%																						
	AHG	1	no consensus																						
	Luminex	26	100%	100%	100%	100%	100%	96%	96%	96%	96%	96%	96%	92%	12%	77%	15%	15%	62%	54%	54%	42%	27%	15%	12%
	Flow	3	no specificities assigned																						
	C1q	1	no consensus																						
	Other	1	no consensus																						

1279	method	#abs	DR7	DR9	DR53	DR52	DQ2	DQA1*05	DR12
class II	NIH-Ext	1	undetermined						
	Luminex	27	100%	100%	96%	79%	71%	17%	17%
	Flow	3	no specificities assigned						
	Other	1	no consensus						

Strong class I reactivity was detected in **Serum 1279**, as anti-A29 reactivity, with median MFI = 12611, was reported by all methods, except Flow. In addition, Antiglobulin, C1q, and Luminex detected anti-B44 (7610) and -B45 (7242) reactivity. Reactivity to number of 1C, 10C, and 7C specificities was also reported by Luminex-SAB. One lab reporting by C1q, reported C-locus

reactivity in this sample. Class II reactivity was reported by Luminex-SAB and Luminex-PRA, with each method reporting anti-DR7 (5332), -DR9 (3565), and -DQ2 (2399) reactivity. Additional class II reactivity, including anti-DR53 (2148) reactivity, was also reported by Luminex-SAB.

1280	method	#labs	A23	A24	A2403	A25	A32	B38	B49	B51	B52	B53	B57	B58	B59	A80	B13	B37
class I	NIH-Ext	2	50%	50%														
	AHG	1	no consensus															
	Luminex	25	100%	100%	32%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	96%	96%
	Flow	3	no specificities assigned															
	C1q	1	no consensus															
	Other	1	no consensus															
1280	method	#labs	B44	B47	B63	B77	B27	A2	B76	A68	A1	A69	B35	Bw4	A203	A2C	B15	B78
	Luminex	25	96%	96%	96%	96%	92%	88%	84%	72%	68%	64%	64%	56%	12%	12%	12%	12%

1280	method	#labs	DPw3	DR4	DR53	DR14	DPw6	DP18	DP28	DQ8	DR1	DR10	DR11	DR7	DR9	DPw2	DQ7	DQ9	DP14	
class II	NIH-Ext	1	undetermined																	
	Luminex	14	96%	96%	96%	96%	96%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	88%	
	Flow	3	no specificities assigned																	
	Other	1	no consensus																	
1280	method	#labs	DP9	DP17	DPw4	DPA1*01	DP10	DP20	DQA1*03	DP19	DPA1*03	DP23	DQ4	DQ2	DQA1*05	DQA1*04	DPw1	DP11	DP402	
	Luminex	14	88%	83%	83%	71%	67%	67%	67%	63%	63%	58%	58%	33%	33%	25%	25%	25%	21%	

Strong anti-A23 (8802) and –A24 (8846) reactivity was detected in **Serum 1280**, by all methods except Flow. Additional reactivity to 5C and 10C specificities was reported by various methods. Allele specific A*24:03 reactivity was reported by a few (32%) Luminex-SAB labs. Class II reactivity was also

reported in this sample, with Luminex-SAB and Luminex-PRA reporting reactivity to a number of DR and DQ antigens including, DR1, DR4, DR14, DR10, DR11, DQ7, DQ8, and DQ9. Additional reactivity to a number of DP and DQ specificities was also reported by Luminex-SAB.



NEXT MAILING DATE: February 5, 2020

Season's Greetings!

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



Table 14. Summary of the 571st Serum Exchange (Serum #1277-1280) by NIH-Extended - class I

Method: NIH-Extended											
*** Serum 1277 ***			*** Serum 1278 ***			*** Serum 1279 ***			*** Serum 1280 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NEG	100%	100%	B13	50%	100%	A29	50%	100%	A23	100%	100%
			B61	50%	100%				A24	100%	100%
			B60	50%	75%						
			B55	50%	50%						

Table 15. Summary of the 571st Serum Exchange (Serum #1277-1280) by Antiglobulin and Flow Cytometry - class I

Method: Antiglobulin											
*** Serum 1277 ***			*** Serum 1278 ***			*** Serum 1279 ***			*** Serum 1280 ***		
1 typing Labs			1 typing Labs			1 typing Labs			1 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NEG	-	-	no consensus			no consensus			no consensus		

Method: Flow Cytometry											
*** Serum 1277 ***			*** Serum 1278 ***			*** Serum 1279 ***			*** Serum 1280 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

Table 16. Summary of the 571st Serum Exchange (Serum #1277-1280) by Other and C1q - class I

Method: Other											
*** Serum 1277 ***			*** Serum 1278 ***			*** Serum 1279 ***			*** Serum 1280 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
Undetermined			No consensus			No consensus			No consensus		

Other = Luminex PRA

Method: C1q											
*** Serum 1277 ***			*** Serum 1278 ***			*** Serum 1279 ***			*** Serum 1280 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NEG	-	-	no consensus			no consensus			no consensus		

Table 17. Summary of the 571st Serum Exchange (Serum #1277-1280) by Luminex - class I

Method: Luminex											
*** Serum 1277 ***			*** Serum 1278 ***			*** Serum 1279 ***			*** Serum 1280 ***		
26 typing Labs			25 typing Labs			26 typing Labs			25 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B27	96%	100%	B13	100%	100%	A29	100%	100%	A23	100%	100%
B48	50%	100%	B27	100%	100%	A43	100%	100%	A24	100%	100%
B8	46%	100%	B60	100%	100%	B44	100%	100%	A25	100%	100%
B59	42%	100%	B61	100%	100%	B45	100%	100%	A32	100%	100%
B73	42%	100%	B47	96%	100%	B76	100%	100%	B38	100%	100%
B65	38%	100%	B48	96%	100%	A31	96%	100%	B49	100%	100%
B7	38%	100%	B67	96%	100%	A33	96%	75%	B51	100%	100%
B2708	35%	100%	B7	96%	100%	A25	96%	67%	B52	100%	100%
B46	35%	100%	B73	96%	100%	A26	96%	50%	B53	100%	100%
B81	35%	100%	B41	96%	0%	A30	96%	50%	B57	100%	100%
B82	35%	100%	B62	92%	100%	A34	96%	50%	B58	100%	100%
B38	31%	100%	B81	92%	100%	B82	92%	100%	B59	100%	100%
B64	27%	100%	B38	92%	67%	A66	77%	100%	A80	96%	100%
Cw8	27%	100%	B76	88%	0%	A1	62%	100%	B13	96%	100%
B56	19%	100%	B75	84%	100%	A80	54%	100%	B37	96%	100%
B61	19%	100%	B8	84%	100%	B42	54%	100%	B44	96%	100%
B42	15%	100%	B42	84%	33%	B41	42%	100%	B47	96%	100%
B13	12%	100%	B39	80%	100%	A23	27%	100%	B63	96%	100%
B60	12%	100%	B55	80%	67%	A36	15%	100%	B77	96%	100%
B71	12%	100%	B72	76%	0%	A6601	15%	100%	B27	92%	100%
			Cw2	72%	100%	A6602	15%	100%	A2	88%	80%
			B50	68%	100%	B15	12%	100%	B76	84%	100%
			B77	64%	0%	B8201	12%	100%	A68	72%	100%
			A66	60%	50%				A1	68%	100%
			B56	56%	100%				A69	64%	100%
			B71	56%	100%				B35	64%	100%
			B49	52%	100%				Bw4	56%	100%
			A6602	44%	100%				A2403	32%	100%
			B18	44%	100%				A203	12%	100%
			B2708	44%	100%				A2C	12%	100%
			B35	44%	100%				B15	12%	100%
			B54	44%	100%				B78	12%	100%
			B64	42%	100%						
			B45	40%	100%						

Table 18. Summary of the 571st Serum Exchange (Serum #1277-1280) by NIH-Extended, Flow Cytometry and Other - class II

Method: NIH-Extended															
*** Serum 1277 ***				*** Serum 1278 ***				*** Serum 1279 ***				*** Serum 1280 ***			
1 typing Lab				1 typing Lab				1 typing Lab				1 typing Lab			
Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion	
undetermined				undetermined				undetermined				undetermined			

Method: Flow Cytometry															
*** Serum 1277 ***				*** Serum 1278 ***				*** Serum 1279 ***				*** Serum 1280 ***			
3 typing Labs				3 typing Labs				3 typing Labs				3 typing Labs			
Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion	
no specificities assigned				no specificities assigned				no specificities assigned				no specificities assigned			

Method: Other															
*** Serum 1277 ***				*** Serum 1278 ***				*** Serum 1279 ***				*** Serum 1280 ***			
1 typing Lab				1 typing Lab				1 typing Lab				1 typing Lab			
Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion	
NEG	-	-		no consensus				no consensus				no consensus			

Table 19. Summary of the 571st Serum Exchange (Serum #1277-1280) by Luminex - class II

Method: Luminex											
*** Serum 1277 ***			*** Serum 1278 ***			*** Serum 1279 ***			*** Serum 1280 ***		
20 typing Labs			24 typing Labs			24 typing Labs			24 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NEG	40%	-	DR11	100%	100%	DR7	100%	100%	DPw3	96%	100%
DP19	60%	100%	DR7	100%	100%	DR9	100%	100%	DR4	96%	100%
DP28	60%	100%	DPw1	96%	100%	DR53	96%	65%	DR53	96%	100%
DR8	60%	100%	DPw3	96%	100%	DR52	79%	32%	DR14	96%	71%
DP15	60%	33%	DPw5	96%	100%	DQ2	71%	20%	DPw6	96%	50%
DP10	55%	100%	DPw6	96%	100%	DQA1*05	17%	100%	DP18	92%	100%
DP20	55%	100%	DP11	92%	100%	DR12	17%	100%	DP28	92%	100%
DR1	55%	50%	DP18	92%	100%				DQ8	92%	100%
DR12	55%	50%	DP28	92%	100%				DR1	92%	100%
DR16	55%	50%	DPw2	92%	100%				DR10	92%	100%
DR14	55%	33%	DR53	92%	100%				DR11	92%	100%
DR4	50%	40%	DP13	88%	100%				DR7	92%	100%
DR52	50%	33%	DP14	88%	100%				DR9	92%	100%
DR15	40%	100%	DP17	88%	100%				DPw2	92%	92%
DR17	40%	100%	DP19	88%	100%				DQ7	92%	92%
DR18	40%	100%	DP9	88%	100%				DQ9	92%	83%
DR11	40%	50%	DR9	88%	100%				DP14	88%	100%
DR9	40%	50%	DP10	67%	100%				DP9	88%	100%
DP13	40%	33%	DP20	67%	100%				DP17	83%	100%
DQ2	40%	20%	DPw4	63%	71%				DPw4	83%	93%
DQ4	35%	25%	DP402	46%	100%				DPA1*01	71%	100%
DQ6	30%	100%	DPA1*02	25%	100%				DP10	67%	100%
DR13	30%	100%	DP15	21%	100%				DP20	67%	100%
DPw5	30%	50%	DPA1*03	17%	100%				DQA1*03	67%	100%
DQ8	30%	33%	DPA1*04	17%	100%				DP19	63%	100%
DR51	25%	100%							DPA1*03	63%	100%
DPA1*01	20%	100%							DP23	58%	100%
DPA1*03	20%	100%							DQ4	58%	86%
									DQ2	33%	100%
									DQA1*05	33%	100%
									DQA1*04	25%	100%
									DPw1	25%	80%
									DP11	25%	67%
									DP402	21%	100%
									DP13	17%	100%

Table 20. Individual laboratory results for Serum #1277 - 1280 by NIH-Extended - class I

**** Serum 1277 ****					**** Serum 1278 ****					**** Serum 1279 ****					**** Serum 1280 ****						
Ctr	% POS			Other	% POS	B13	B61	B60	B55	Other	% POS	A29			Other	% POS	A23	A24		Other	Method
725	0				21	+	+	+	+		6	+				44	+	+			EXT
3753	0				1						9					41	+	+			EXT

Ext = NIH-Extended

Table 21. Individual laboratory results for Serum #1277-1280 by Antiglobulin and Flow Cytometry - class I

**** Serum 1277 ****					**** Serum 1278 ****															
Ctr	% POS			Other	% POS	B13	B27	B47	B48	B60	B61	B7	B81						Other	Method
774	0				37	+	+	+	+	+	+	+	+							Antiglobulin

**** Serum 1279 ****					**** Serum 1280 ****																		
Ctr	% POS	A29	B44	B45	Other	% POS	A23	A24	A25	A32	B27	B47	B49	B51	B52	B53	B57	B58	B63	Bw4	B44	Other	Method
774	25	+	+	+		80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Antiglobulin

**** Serum 1277 ****					**** Serum 1278 ****																		
Ctr	% POS			Other	% POS																	Other	Method
3224	16				92																		FC
5214	15				92																		FC
8067	14				89																		FC

**** Serum 1279 ****					**** Serum 1280 ****																		
Ctr	% POS			Other	% POS																	Other	Method
3224	55				82																		FC
5214	87				86																		FC
8067	79				87																		FC

FC =Flow Cytometry

Table 22. Individual laboratory results for Serum #1277-1280 by Other and C1q - class I

**** Serum 1277 ****																**** Serum 1278 ****																
Ctrl	% POS														Other	% POS	B13	B27	B42	B47	B48	B60	B61	B7	B8	B81					Other	Method
3753	4															86	+	+	+	+	+	+	+	+	+						Other	Other

**** Serum 1279 ****														**** Serum 1280 ****																										
Ctrl	% POS	A25	A26	A29	A30	A31	A33	A34	A66	B44	B45			Other	% POS	A23	A24	A25	A32	B13	B27	B35	B37	B38	B44	B47	B49	B51	B52	B53	B57	B58	B59	B63	B77	Bw4		Other	Method	
3753	72	+	+	+	+	+	+	+	+	+	+				88	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Other	Other

Other = Luminex PRA

**** Serum 1277 ****																**** Serum 1278 ****																								
Ctrl	% POS														Other	% POS	B13	B27	B48	B60	B61	B7	B81	Bw4	Bw6	Cw1	Cw10	Cw12	Cw14	Cw15	Cw16	Cw17	Cw18	Cw2	Cw4	Cw5	Cw6	Cw7	Other	Method
786	0																+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			C1q

**** Serum 1279 ****														**** Serum 1280 ****																									
Ctrl	% POS	A29	A43	B44	B45	B76	B82	Bw4	Bw6	Cw1	Cw10	Cw12	Cw14	Cw15	Cw16	Cw17	Cw18	Cw2	Cw4	Cw6	Cw7																Other	Method	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		C1q

Table 23. Individual laboratory results for Serum #1277 by Luminex - class I

**** Serum 1277 ****																	Method						
Ctr	% POS	B27	B48	B8	B59	B73	B65	B7	B2708	B46	B81	B82	B38	B64	Cw8	B56	B61	B42	B13	B60	B71	Other	Method
615		+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	B39	LMX
725		+							+														LMX
774	5	+							+														LMX
786		+	+	+	+	+	+	+		+	+	+	+	+			+						LMX
910		+	+	+	+	+	+	+			+	+	+										LMX
3224		+	+	+	+	+	+	+	+													B8101,B8201	LMX
3632	24	+	+	+		+																	LMX
3753		+																					LMX
3766	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						B8101,B8201	LMX
3808	1	+							+														LMX
3966	4	+	+	+	+	+	+				+	+											LMX
4322		+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	Cw4,Cw6,A66,B47 >	LMX
5214		+																					LMX
5219	2	+							+														LMX
5462		+							+														LMX
6649	2	+																					LMX
8045	0																						LMX
8058	3	+	+					+									+					A2,B40,Bw4,Bw6	LMX
8062		+							+						+								LMX
8082		+							+														LMX
8086	5	+	+	+	+																		LMX
8090		+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	B39,B72	LMX
8098		+							+													B7C	LMX
8100		+	+	+	+	+	+	+		+	+	+	+	+	+	+		+					LMX
8103		+							+														LMX
8112		+	+	+	+	+	+	+		+	+	+	+	+	+								LMX

Table 24. Individual laboratory results for Serum #1278 by Luminex - class I

		**** Serum 1278 ****																																														
Ctr	% POS	B13	B27	B60	B61	B47	B48	B67	B7	B73	B41	B62	B81	B38	B76	B75	B8	B42	B39	B55	B72	Cw2	B50	B77	A66	B56	B71	B49	A6602	B18	B2708	B35	B54	B64	B45	B59	Cw17	B52	B37	B3901	B8101	Other	Method					
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B82,B65	LMX			
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
774	54	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B82,B65,B46	LMX		
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
3632	90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
3766	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B82,A29,B65 >	LMX		
3808	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,B703	LMX		
3966	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX		
4322	NT																																														LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
5219	19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,A10,B21 >	LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
6649	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8045	19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703	LMX	
8058	15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15	LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6,B7C	LMX	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B82,B65,B46 >	LMX
8086	10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,B12C,B5C,B8C >	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B703	LMX
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B82	LMX

Table 25. Individual laboratory results for Serum #1279 by Luminex - class I

		**** Serum 1279 ****																										
Ctr	% POS	A29	A43	B44	B45	B76	A31	A33	A25	A26	A30	A34	B82	A66	A1	A80	B42	B41	A23	A36	A6601	A6602	B15	B8201	Other	Method		
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
725		+	+	+	+	+	+	+	+	+	+	+	+															LMX
774	41	+	+	+	+	+	+	+	+	+	+	+	+															LMX
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
3224		+	+	+	+	+	+	+	+	+	+	+	+									+	+		+			LMX
3632	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+											LMX
3766	61	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	A24,B61,A74	LMX	
3808	16	+	+	+	+	+	+	+	+	+	+	+	+															LMX
3966	14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX
5219	14	+	+	+	+	+	+	+	+	+	+	+	+											+		A10,A19,B12	LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+							+	+		+			LMX
6649	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+													LMX
8045	17	+	+	+	+	+	+	+	+	+	+	+	+	+														LMX
8058	16	+	+	+	+	+	+	+	+	+	+	+	+	+										+				LMX
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
8086	8	+	+	+	+	+							+															LMX
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+													B12C,B5C,B7C,A1C >	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									A10C	LMX	
8103		+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+				LMX
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						A24,A74	LMX

Table 26. Individual laboratory results for Serum #1280 by Luminex - class I

		**** Serum 1280 ****																																									
Ctr	% POS	A23	A24	A25	A32	B38	B49	B51	B52	B53	B57	B58	B59	A80	B13	B37	B44	B47	B63	B77	B27	A2	B76	A68	A1	A69	B35	Bw4	A2403	A203	A2C	B15	B78	Other	Method								
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									+	B*27:05	LMX					
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX				
774	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX				
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									+	B18	LMX				
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												LMX			
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX		
3632	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX		
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX		
3766	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX		
3808	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX		
3966	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX		
4322	NT																																								LMX		
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX	
5219	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A9,A10,B21,B5 >	LMX		
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
6649	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8045	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8058	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4	LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8086	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B12C,B5C,B8C,B7C >	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX

Table 27. Individual laboratory results for Serum #1277 - 1280 by NIH-Extended, Other, and Flow Cytometry class II

		**** Serum 1277 ****			**** Serum 1278 ****			**** Serum 1279 ****			**** Serum 1280 ****															
Ctr	% POS			Other	% POS			Other	% POS			Other	% POS												Other	Method
3753	6				9				9				57													Ext
3753	6				9				9				57													Ext

Ext = NIH-extended

		**** Serum 1277 ****			**** Serum 1278 ****				**** Serum 1279 ****				**** Serum 1280 ****															
Ctr	% POS			Other	% POS	DR11	DR7	DR9	Other	% POS	DQ2	DR7	DR9	Other	% POS	DQ4	DQ7	DQ8	DQ9	DR1	DR10	DR11	DR14	DR4	DR7	DR9	Other	Method
3753	0				50	+	+	+		40	+	+	+		83	+	+	+	+	+	+	+	+	+	+	+	Other	

Other = Luminex-PRA

		**** Serum 1277 ****			**** Serum 1278 ****			**** Serum 1279 ****			**** Serum 1280 ****																
Ctr	% POS			Other	% POS			Other	% POS			Other	% POS													Other	Method
3224	81				90				58				96													FC	
5214	82				90				66				96													FC	
8067	81				88				53				81													FC	

FC = Flow Cytometry

Table 28. Individual laboratory results for Serum #1277 by Luminex - class II

		**** Serum 1277 ****																																	
Ctr	% POS	DP19	DP28	DR8	DP15	DP10	DP20	DR1	DR12	DR16	DR14	DR4	DR52	DR15	DR17	DR18	DR11	DR9	DP13	DQ2	DQ4	DQ6	DR13	DPw5	DQ8	DR51	DPA1*01	DPA1*03	DP11	DPw2	DPw4	Other	Method		
615	no specificities assigned																																		
774	0																																		
910	0																																		
3224	no specificities assigned																																		
3632	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+									
3753	0																																		
3766	82	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+		+	+						DR103,DQ5, DRB1*12:01, DRB1*14:01,DRB1*04:02, DRB1*11:01,DRB1*15:01>	
3808	0																																		
3966	20	+	+	+	+	+		+	+	+	+	+	+								+	+					+								
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	DR103,DR7,DQ5,DPw6 >	
5214		+	+	+	+	+	+	+																											
5219	0																																		
5462		+	+	+	+	+	+	+	+	+	+									+	+	+					+								
6649	0																																		
8045	0																																		
8058	0																																		
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		+			+	+			DPw6,DP402	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+			+	+	+						DPA1*04
8086	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+									
8090		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+					+	+			+	+						
8098	NT																																		
8100		+	+	+	+	+	+		+	+	+	+	+							+	+	+	+				+								
8103	NT																																		
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+			DP18	

Table 29. Individual laboratory results for Serum #1278 - 1279 by Luminex - class II

Ctr	**** Serum 1278 ****																Other	**** Serum 1279 ****								Method																
	% POS	DR11	DR7	DPw1	DPw3	DPw5	DPw6	DP11	DP18	DP28	DPw2	DR53	DP13	DP14	DP17	DP19		DP9	DR9	DP10	DP20	DPw4	DP402	DPA1*02	DP15		DPA1*03	DPA1*04	DPA1*01	% POS	DR7	DR9	DR53	DR52	DQ2	DQA1*05	DR12	DQA1*04	Other			
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+														DP9,DQA1*02,DRB3*01:01, DRB3*03:01	LMX			
774	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								37	+	+	+	+			+				LMX		
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+																DRB3*01:01, DRB3*03:01	LMX			
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+	+														LMX		
3632	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+							64	+	+	+	+	+						LMX		
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+																DRB3*01:01, DRB3*03:01	LMX			
3766	76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+					78	+	+	+	+	+	+	+	+		DR13,DR14,DR17,DQA1*03, DQA1*05:03,DQA1*05:05, DRB3*01:01,DRB3*03:01>	LMX		
3808	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+						3	+	+	+								LMX			
3966	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+		+	+	+	13	+	+	+	+	+	+	+			DQA1*02,DQA1*03	LMX			
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+													LMX		
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+																			LMX	
5219	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+						3	+	+	+	+								LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+																		LMX	
6649	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+		+				6	+	+	+	+	+								LMX	
8045	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+						5	+	+	+	+									LMX	
8058	27	+	+															+									2	+	+												LMX	
8062		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+																			LMX	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+														LMX	
8086	37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									6	+	+	+		+								LMX
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																						LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+		+																	LMX	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																						LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+																		LMX	
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																						LMX

