

# SERUM EXCHANGE #580 MAY 5, 2021

Serum	1313 - 1316
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The results for Serum Exchange #580 are summarized in Tables 19 - 26 and individual listing of results are shown in tables 27 - 39. Strong anti-A24,

-B13, and -DR4 reactivity, along with reactivity to a number of 1C, 5C, and DP specificities, was examined in this study.

1313	method	#labs	B13	B41	B44	B45	B47	B49	B50	B60	B61	B27	B2708	B48	B62	B72	B77	B75	B76	B38	B53	B71	B7
class I	NIH-Std	1	no consensus																				
	AHG	2	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%		50%									
	C1q	3	100%																				
	PRA	3	67%	67%	67%	67%	67%	67%	67%	67%	67%		33%	33%	67%	67%	67%	67%	33%	33%	67%	33%	67%
	SAB	22	95%	100%	100%	100%	100%	100%	100%	100%	100%	91%	27%	77%	100%	100%	100%	100%	100%	95%	95%	86%	82%

  

1313	method	#labs	B51	B52	B81	B63	B56	B46	B703	B35	B59	B39	B57	B37	B78	B58	Bw4	B2705	B73	B12C	B15	B40	B5C	B67
	PRA	3	33%	33%	67%	33%	33%	33%	33%															
	SAB	22	77%	77%	73%	73%	68%	55%		73%	73%	68%	68%	41%	41%	36%	23%	14%	14%	9%	9%	9%	9%	9%

1313	method	#labs	NEG	DR4	DR53	DP1	DP5	DP4
class II	C1q	2	100%					
	PRA	3		67%	33%			
	SAB	20		86%	91%	23%	23%	5%

**Serum 1313.** Strong anti-B13 (16820) reactivity was detected by all methods in this sample. Additional reactivity to a number of 12C, 7C, and 5C specificities was reported by various methods, including reactivity to B41 (9961), B44 (8284), B45 (10142), B47(7687), B49 (11805), and B50 (10299).

Class II reactivity was detected in this sample by Luminex single antigen (SAB) and PRA labs, with each reporting anti-DR4 (2133) and -DR53 (3056) reactivity. C1q labs indicated there were no C1q-binding class II antibodies detected.

\*(median MFI)

1314	method	#labs	A1	A11	A1101	A1102	A23	A24	A26	A25	A34	A36	B8	A66	A6601	A43	A80	B51	B18	B48	B78	B7801	B60	B54	B55	
class I	NIH-Std	1	no consensus																							
	AHG	2	100%	100%			50%	50%	100%	50%	50%	50%	50%	50%												
	C1q	3	100%	100%			100%	100%	100%	100%	100%	100%	100%	67%	33%	100%	100%	100%	67%	67%	67%		67%	100%	67%	
	PRA	3	67%	67%			67%	67%	67%	67%	67%	67%	67%	33%		33%	67%	67%	67%	67%	67%		67%	33%	33%	
	SAB	22	100%	91%	23%	23%	100%	100%	100%	100%	100%	100%	100%	73%	50%	100%	100%	100%	100%	95%	95%	18%	100%	100%	100%	
1314	method	#labs	B42	B53	B39	B3901	B59	B64	B65	B73	B75	B76	B7	B703	B67	B81	Cw6	Cw7	Cw18	B35	B50	B62	B71	B72	B77	
	C1q	3	67%	33%	67%		100%	100%	100%	100%	100%	100%	67%		33%	67%	100%	100%	100%							
	PRA	3	33%	33%	33%	33%	33%	33%		33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	67%	67%	67%	67%	67%	33%	
	SAB	22	100%	100%	91%	18%	100%	100%	100%	100%	100%	100%	100%	18%	100%	95%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
1314	method	#labs	B82	B41	B45	B61	B56	B65	B38	B37	B46	B52	B2708	B27	Bw6	A3	A33	Cw4	Cw403	Cw17	Cw15	Cw1	Cw12	Cw16	Cw10	
	C1q	3				67%					67%	33%														
	PRA	3	67%	67%	67%		67%	67%	67%	33%				33%						33%						
	SAB	22	100%	100%	100%	100%	100%	100%	100%	95%	9%	9%	64%	45%	41%	41%	36%	86%	14%	64%	59%	55%	55%	32%	27%	
1314	method	#labs	Cw14	Cw2	Cw5	Cw8	Cw9	B8101	A1C	B8C	A10C	A32	B12C	B14	B15	B40	B5C	B7C	Bw4	B63						
	SAB	22	27%	27%	27%	23%	23%	18%	14%	14%	9%	9%	9%	9%	9%	9%	9%	9%	9%	9%	33%					

1314	method	#labs	DQ2	DR7	DQA1*05	DQA1*02	DQ5	DPw5	DR12	DQ6	DP19	DQA1*03	DR52	DP13	DP28	DQ7	DR4	DPw3	DQA1*01	DQA1*04	
class II	C1q	2	50%																		
	PRA	3	67%	67%	33%	33%															
	SAB	20	100%	100%	30%		25%	15%	15%	15%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	

**Serum 1314.** Strong anti-A1 (22980), -A11 (19982), -A26 (18483), and -B8 (23446) reactivity was detected in this sample by all methods. In addition, anti-globulin, C1q, PRA, and SAB labs each reported reactivity to A23 (18072), A24 (15840), A25 (19910), A34 (19802), A36 (18635), A66 (19398), and B8 (23446). Additional reactivity to a number of 5C, 7C, 8C, and C-locus specific-

ities was reported by various methods. A number of labs (n = 4) reporting by SAB, reported allele specific anti-A\*24:02 reactivity.

Strong class II reactivity was also detected in this sample, with C1q, PRA, and SAB labs each reporting anti-DQ2 (13083) reactivity. Additional reactivity to DR7 (3529) and DQA1\*05 (17498) was reported by PRA and SAB labs.

\*(median MFI)

1315	method	#labs	A24	A2403	A23	A25	A32	B49	B51	B53	B57	B58	B52	B63	B37	B38	B44	B47	B59	B27	B2705
class I	NIH-Std	1	no consensus																		
	AHG	2	100%		50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%		50%	
	C1q	3	100%		100%	33%	33%	33%	33%	33%	33%	33%							33%		
	PRA	3	67%	33%	67%	67%	67%	67%	33%	67%	67%	67%	67%	67%	67%	67%	67%	67%	67%	33%	
	SAB	22	100%	23%	100%	95%	95%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	73%	27%

  

1315	method	#labs	Bw4	B77	B13	A80	B76	A2	A203	B35	A68	A69	A1	B71	B78	B15	B18	A2C	B5C	B12C
	AHG	2	50%																	
	PRA	3	33%	67%	67%	33%	33%	67%	33%	33%	33%			33%						
	SAB	22	36%	100%	100%	95%	82%	82%		59%	55%	59%	50%		18%	9%	9%	9%	9%	9%

1315	method	#labs	DR4	DR53	DPw2	DPw3	DPw4	DP402	DP401	DPw6	DP28	DP20	DR14	DR1404	DR10	DR11	DR9	DQ8	DQ9	DQ7	DQ3	DR1	DR7
class II	C1q	2	100%	100%	50%	50%	50%			50%	50%	50%											
	PRA	3	67%	33%	33%	33%	33%			33%	33%		33%	33%	67%	67%	67%	67%	67%	67%	67%	67%	67%
	SAB	20	95%	95%	82%	95%	85%	25%	10%	82%	82%	65%	100%	20%	95%	95%	95%	95%	95%	85%	10%	85%	82%

  

1315	method	#labs	DP14	DP17	DP9	DP18	DPw1	DQ4	DPA1*01	DPA1*03	DPA1*02	DP10	DQA1*03	DQ2	DQA1*05	DQA1*06	DP19	DP23	DP11	DP13	DPA1*04	DQA1*04	DQA1*02
	PRA	3	33%	33%	33%	33%	33%	33%	33%	33%	33%												
	SAB	20	85%	85%	85%	82%	35%	70%	70%	50%	10%	70%	65%	65%	45%	35%	55%	55%	35%	30%	25%	25%	15%

**Serum 1315.** Strong anti-A24 (11098) reactivity was reported in this sample by all methods. Additional reactivity to A23 (13822), A25 (10656), A32 (12438), A80 (4654), B37 (6152), B38 (10455), and B44 (7299), along with reactivity to a number of 5C and 7C specificities, was detected by various methods.

Strong class II reactivity was reported in this sample, with C1q, PRA, and

SAB labs reporting reactivity to DR4 (20565), DR53 (19915), DP2 (14933), DP3 (14410), DP4 (12664), DP6 (12430), and DP28 (13218). Additional reactivity to a number of DR, DQ, and DP specificities, including DR14 (6173), DR10 (7304), DR11 (10310), DR9 (4320), DQ8 (4439), and DQ9 (3950), was reported by PRA and SAB.

\*(median MFI)

1316	method	#abs	B35	B49	B50	B51	B52	B53	B44	B45	B62	B41	B60	B61	B56	B47	B48	B13	B57	B70	B71	B72	B77	B75	B78	B37	B38	B58
class I	NIH-Std	1	no consensus																									
	AHG	2	100%	100%	100%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%		50%	100%								
	C1q	3	100%	100%	100%	100%		100%	67%	67%	67%	67%	67%	67%	67%			67%		67%	100%	67%	67%	67%				
	PRA	3	67%	67%	67%	33%	67%	67%	67%	67%	67%	67%	67%	67%	67%	67%	67%	67%	67%		67%	67%	67%	33%	67%	67%	67%	67%
	SAB	22	100%	100%	95%	100%	100%	100%	100%	95%	95%	95%	95%	95%	91%	100%	77%	100%	100%		95%	95%	100%	95%	91%	100%	100%	100%
1316	method	#abs	B59	B63	B76	B18	B46	B55	B54	B64	B39	B3901	B82	A69	A24	A23	A2	B67	B8	Cw10	Cw9	Cw4	B65	B42	A68	Cw15	Cw1	
	PRA	3	33%	67%	33%	67%	67%	67%	33%	67%	33%	33%	33%	33%	67%	33%	33%											
	SAB	22	100%	100%	100%	95%	95%	95%	82%	91%	86%	23%	23%	55%	82%	73%	64%	77%	73%	73%	73%	68%	64%	41%	36%	32%	23%	
1316	method	#abs	A25	A32	Bw4	Cw5	A2403	A43	B5C	B7801	Bw6	Cw14	Cw2	Cw8	A34	A6601	B12C	B14	B15	B40	B703	B7C	B8C	Cw16	Cw7			
	SAB	22	18%	18%	18%	18%	14%	14%	14%	14%	14%	14%	14%	14%	9%	9%	9%	9%	9%	9%	9%	9%	9%	9%	9%			

1316	method	#abs	NEG	DR17	DR18	DR13	DR14	DR52	DQ5	DQ2	DQ4	DQA1*05	DR11	DR12	DQA1*02	DQ6	DP13	DPw6	DQA1*01	DR1403	DR3	DR4	
class II	C1q	2	100%																				
	PRA	3		67%	67%	33%	33%	33%															
	SAB	20		95%	95%	80%	80%	80%	45%	45%	35%	30%	25%	20%	15%	15%	15%	10%	10%	10%	10%	10%	

**Serum 1316.** Strong anti-B21 (B49, B50), -B35, and -B70 (B71, B72) reactivity was reported in this sample by all methods. Respective median MFI values for each were 17866, 18060, 14447, 14058, and 15723. Additional reactivity to a number of 5C, 7C, 8C, and 12C specificities, including B13 (12557), B41 (14695), B44 (12553), B53(12988), and B56 (12571), was reported by various methods.

Class II reactivity was reported in this sample by PRA and SAB labs. Each reported weak reactivity to DR17 (2955), DR18 (1877), DR13 (1431), DR14 (1188), and DR52 (1877). Labs reporting by C1q noted there were no C1q-binding class II antibodies detected.

\*(median MFI)

**NEXT MAILING DATE: August 4, 2021**

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

**Table 19. Summary of the 580<sup>th</sup> Serum Exchange (Serum #1313-1316) by NIH-Standard - class I**

Method: NIH-Standard											
<b>*** Serum 1313 ***</b>			<b>*** Serum 1314 ***</b>			<b>*** Serum 1315 ***</b>			<b>*** Serum 1316 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

**Table 20. Summary of the 580<sup>th</sup> Serum Exchange (Serum #1313-1316) by Antiglobulin - class I**

Method: Antiglobulin											
*** Serum 1313 ***			*** Serum 1314 ***			*** Serum 1315 ***			*** Serum 1316 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	50%	100%	A1	100%	100%	A24	100%	100%	B49	100%	100%
B41	50%	100%	A11	100%	100%	A23	50%	100%	B50	100%	100%
B44	50%	100%	A26	100%	100%	A25	50%	100%	B70	100%	100%
B45	50%	100%	A23	50%	100%	A32	50%	100%	B35	100%	83%
B47	50%	100%	A24	50%	100%	B27	50%	100%	B41	50%	100%
B49	50%	100%	A25	50%	100%	B37	50%	100%	B44	50%	100%
B50	50%	100%	A34	50%	100%	B38	50%	100%	B45	50%	100%
B60	50%	100%	A36	50%	100%	B44	50%	100%	B47	50%	100%
B61	50%	100%	A66	50%	100%	B47	50%	100%	B48	50%	100%
B27	50%	80%	B8	50%	100%	B49	50%	100%	B51	50%	100%
B48	50%	67%				B51	50%	100%	B52	50%	100%
						B52	50%	100%	B53	50%	100%
						B53	50%	100%	B56	50%	100%
						B57	50%	100%	B60	50%	100%
						B58	50%	100%	B61	50%	100%
						B63	50%	100%	B62	50%	100%
						Bw4	50%	100%	B57	50%	60%

**Table 21. Summary of the 580<sup>th</sup> Serum Exchange (Serum #1313-1316) by C1q - class I**

Method: C1q											
*** Serum 1313 ***			*** Serum 1314 ***			*** Serum 1315 ***			*** Serum 1316 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	100%	100%	A1	100%	100%	A23	100%	100%	B35	100%	100%
			A11	100%	100%	A24	100%	100%	B49	100%	100%
			A23	100%	100%	A25	33%	100%	B50	100%	100%
			A24	100%	100%	A32	33%	100%	B51	100%	100%
			A25	100%	100%	B49	33%	100%	B53	100%	100%
			A26	100%	100%	B51	33%	100%	B72	100%	100%
			A34	100%	100%	B53	33%	100%	B13	67%	100%
			A36	100%	100%	B57	33%	100%	B45	67%	100%
			A43	100%	100%	B58	33%	100%	B62	67%	100%
			A80	100%	100%	B59	33%	100%	B71	67%	100%
			B51	100%	100%				B75	67%	100%
			B54	100%	100%				B78	67%	100%
			B59	100%	100%				B41	33%	100%
			B64	100%	100%				B44	33%	100%
			B65	100%	100%				B56	33%	100%
			B73	100%	100%				B60	33%	100%
			B75	100%	100%				B61	33%	100%
			B76	100%	100%				B77	33%	100%
			B8	100%	100%						
			Cw18	100%	100%						
			Cw6	100%	100%						
			Cw7	100%	100%						
			A66	67%	100%						
			B18	67%	100%						
			B39	67%	100%						
			B42	67%	100%						
			B46	67%	100%						
			B48	67%	100%						
			B55	67%	100%						
			B60	67%	100%						
			B61	67%	100%						
			B7	67%	100%						
			B78	67%	100%						
			B81	67%	100%						
			A6601	33%	100%						
			B52	33%	100%						
			B53	33%	100%						

**Table 22. Summary of the 580<sup>th</sup> Serum Exchange (Serum #1313-1316) by PRA - class I**

Method: Luminex-PRA											
*** Serum 1313 ***			*** Serum 1314 ***			*** Serum 1315 ***			*** Serum 1316 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	67%	100%	A1	67%	100%	A23	67%	100%	A24	67%	100%
B41	67%	100%	A11	67%	100%	A24	67%	100%	B13	67%	100%
B44	67%	100%	A23	67%	100%	A25	67%	100%	B18	67%	100%
B45	67%	100%	A24	67%	100%	A32	67%	100%	B35	67%	100%
B47	67%	100%	A25	67%	100%	B13	67%	100%	B37	67%	100%
B49	67%	100%	A26	67%	100%	B37	67%	100%	B38	67%	100%
B50	67%	100%	A34	67%	100%	B38	67%	100%	B41	67%	100%
B53	67%	100%	A36	67%	100%	B44	67%	100%	B44	67%	100%
B60	67%	100%	A80	67%	100%	B47	67%	100%	B45	67%	100%
B61	67%	100%	B18	67%	100%	B49	67%	100%	B46	67%	100%
B62	67%	100%	B35	67%	100%	B52	67%	100%	B47	67%	100%
B7	67%	100%	B38	67%	100%	B53	67%	100%	B48	67%	100%
B72	67%	100%	B41	67%	100%	B57	67%	100%	B49	67%	100%
B75	67%	100%	B45	67%	100%	B58	67%	100%	B50	67%	100%
B77	67%	100%	B48	67%	100%	B59	67%	100%	B52	67%	100%
B81	67%	100%	B50	67%	100%	B63	67%	100%	B53	67%	100%
B2708	33%	100%	B51	67%	100%	B77	67%	100%	B55	67%	100%
B38	33%	100%	B56	67%	100%	A2	33%	100%	B56	67%	100%
B46	33%	100%	B60	67%	100%	A203	33%	100%	B57	67%	100%
B48	33%	100%	B61	67%	100%	A2403	33%	100%	B58	67%	100%
B51	33%	100%	B62	67%	100%	A68	33%	100%	B60	67%	100%
B52	33%	100%	B65	67%	100%	A80	33%	100%	B61	67%	100%
B56	33%	100%	B71	67%	100%	B27	33%	100%	B62	67%	100%
B63	33%	100%	B72	67%	100%	B35	33%	100%	B63	67%	100%
B703	33%	100%	B78	67%	100%	B51	33%	100%	B64	67%	100%
B71	33%	100%	B8	67%	100%	B71	33%	100%	B71	67%	100%
B76	33%	100%	B82	67%	100%	B76	33%	100%	B72	67%	100%
			A43	33%	100%	Bw4	33%	100%	B77	67%	100%
			A66	33%	100%				B78	67%	100%
			B2708	33%	100%				A2	33%	100%
			B37	33%	100%				A23	33%	100%
			B39	33%	100%				A69	33%	100%
			B3901	33%	100%				B39	33%	100%
			B42	33%	100%				B3901	33%	100%
			B53	33%	100%				B51	33%	100%
			B54	33%	100%				B54	33%	100%
			B55	33%	100%				B59	33%	100%



**Table 23. Summary of the 580<sup>th</sup> Serum Exchange (Serum #1313-1316) by Single Antigen - class I**

Method: Luminex - SAB											
*** Serum 1313 ***			*** Serum 1314 ***			*** Serum 1315 ***			*** Serum 1316 ***		
22 typing Labs			22 typing Labs			22 typing Labs			22 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B41	100%	100%	A1	100%	100%	A23	100%	100%	B13	100%	100%
B44	100%	100%	A23	100%	100%	A24	100%	100%	B35	100%	100%
B45	100%	100%	A24	100%	100%	B13	100%	100%	B37	100%	100%
B47	100%	100%	A25	100%	100%	B37	100%	100%	B38	100%	100%
B49	100%	100%	A26	100%	100%	B38	100%	100%	B44	100%	100%
B50	100%	100%	A34	100%	100%	B44	100%	100%	B47	100%	100%
B60	100%	100%	A36	100%	100%	B47	100%	100%	B49	100%	100%
B61	100%	100%	A43	100%	100%	B49	100%	100%	B51	100%	100%
B62	100%	100%	A80	100%	100%	B51	100%	100%	B52	100%	100%
B72	100%	100%	B18	100%	100%	B52	100%	100%	B53	100%	100%
B76	100%	100%	B35	100%	100%	B53	100%	100%	B57	100%	100%
B77	100%	100%	B38	100%	100%	B57	100%	100%	B58	100%	100%
B75	100%	80%	B41	100%	100%	B58	100%	100%	B59	100%	100%
B13	95%	100%	B42	100%	100%	B59	100%	100%	B63	100%	100%
B38	95%	100%	B45	100%	100%	B63	100%	100%	B76	100%	100%
B53	95%	67%	B50	100%	100%	B77	100%	100%	B77	100%	100%
B27	91%	100%	B53	100%	100%	A25	95%	100%	B18	95%	100%
B71	86%	100%	B54	100%	100%	A32	95%	100%	B41	95%	100%
B7	82%	75%	B55	100%	100%	A80	95%	100%	B45	95%	100%
B48	77%	100%	B56	100%	100%	B76	82%	100%	B46	95%	100%
B51	77%	100%	B59	100%	100%	A2	82%	67%	B50	95%	100%
B52	77%	100%	B60	100%	100%	B27	73%	80%	B55	95%	100%
B81	73%	100%	B61	100%	100%	A69	59%	100%	B60	95%	100%
B35	73%	75%	B62	100%	100%	B35	59%	100%	B61	95%	100%
B59	73%	50%	B64	100%	100%	A68	55%	100%	B62	95%	100%
B63	73%	0%	B65	100%	100%	A1	50%	100%	B71	95%	100%
B39	68%	100%	B67	100%	100%	Bw4	36%	100%	B72	95%	100%
B56	68%	100%	B7	100%	100%	B2705	27%	100%	B75	95%	100%
B57	68%	100%	B71	100%	100%	A2403	23%	100%	B56	91%	100%
B46	55%	100%	B72	100%	100%	B78	18%	100%	B64	91%	100%
B37	41%	100%	B73	100%	100%	A2C	9%	100%	B78	91%	100%
B78	41%	100%	B75	100%	100%	B12C	9%	100%	B39	86%	100%
B58	36%	100%	B76	100%	100%	B15	9%	100%	A24	82%	100%
B2708	27%	100%	B77	100%	100%	B18	9%	100%	B54	82%	100%
Bw4	23%	100%	B8	100%	100%	B5C	9%	100%	B48	77%	100%
B2705	14%	100%	B82	100%	100%	A10	5%	100%	B67	77%	100%
B73	14%	100%	Cw18	100%	100%	A10C	5%	100%	A23	73%	100%

**Table 23. Summary of the 580<sup>th</sup> Serum Exchange (Serum #1313-1316) by Single Antigen - class I**

<b>Method: Luminex - SAB, cont.</b>											
<b>*** Serum 1313 ***</b>			<b>*** Serum 1314 ***</b>			<b>*** Serum 1315 ***</b>			<b>*** Serum 1316 ***</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
B12C	9%	100%	Cw6	100%	100%	A19	5%	100%	B8	73%	100%
B15	9%	100%	Cw7	100%	95%	A1C	5%	100%	Cw10	73%	100%
B40	9%	100%	B51	100%	80%	A203	5%	100%	Cw9	73%	100%
B5C	9%	100%	B37	95%	100%	A9	5%	100%	Cw4	68%	100%
B67	9%	100%	B48	95%	100%	B12	5%	100%	A2	64%	100%
B12	5%	100%	B78	95%	100%	B16	5%	100%	B65	64%	100%
B16	5%	100%	B81	95%	100%	B17	5%	100%	A69	55%	100%
B21	5%	100%	A11	91%	100%	B21	5%	100%	B42	41%	100%
B3901	5%	100%	B39	91%	100%	B39	5%	100%	A68	36%	100%
B4005	5%	100%	Cw4	86%	100%	B41	5%	100%	Cw15	32%	100%
B70	5%	100%	A66	73%	83%	B45	5%	100%	B3901	23%	100%
B7801	5%	100%	B2708	64%	100%	B46	5%	100%	B82	23%	100%
B7C	5%	100%	Cw17	64%	100%	B48	5%	100%	Cw1	23%	100%
B8101	5%	100%	Cw15	59%	100%	B5	5%	100%	A25	18%	100%
B8C	5%	100%	Cw1	55%	100%	B50	5%	100%	A32	18%	100%
Bw6	5%	100%	Cw12	55%	100%	B54	5%	100%	Bw4	18%	100%
Cw2	5%	100%	A6601	50%	100%	B55	5%	100%	Cw5	18%	100%
			B27	45%	50%	B56	5%	100%	A2403	14%	100%
			A3	41%	100%	B60	5%	100%	A43	14%	100%
			Bw6	41%	96%	B61	5%	100%	B5C	14%	100%
			A33	36%	100%	B62	5%	100%	B7801	14%	100%
			Cw16	32%	100%	B64	5%	100%	Bw6	14%	100%
			Cw10	27%	100%	B65	5%	100%	Cw14	14%	100%
			Cw14	27%	100%	B67	5%	100%	Cw2	14%	100%
			Cw2	27%	100%	B71	5%	100%	Cw8	14%	100%
			Cw5	27%	100%	B72	5%	100%	A34	9%	100%
			A1101	23%	100%	B75	5%	100%	A6601	9%	100%
			A1102	23%	100%	B7C	5%	100%	B12C	9%	100%
			Cw8	23%	100%	B8	5%	100%	B14	9%	100%
			Cw9	23%	100%	B8C	5%	100%	B15	9%	100%
			B3901	18%	100%	Cw10	5%	100%	B40	9%	100%
			B703	18%	100%	Cw5	5%	100%	B703	9%	100%
			B7801	18%	100%	Cw9	5%	100%	B7C	9%	100%
			B8101	18%	100%				B8C	9%	100%

**Table 24. Summary of the 580<sup>th</sup> Serum Exchange (Serum #1313-1316) by C1q - class II**

Method: C1q											
<b>*** Serum 1313 ***</b>			<b>*** Serum 1314 ***</b>			<b>*** Serum 1315 ***</b>			<b>*** Serum 1316 ***</b>		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NEG	100%	-	DQ2	50%	100%	DR4	100%	100%	NEG	100%	-
						DR53	100%	100%			
						DP20	50%	100%			
						DP28	50%	100%			
						DPw2	50%	100%			
						DPw3	50%	100%			
						DPw4	50%	100%			
						DPw6	50%	100%			

**Table 25. Summary of the 580<sup>th</sup> Serum Exchange (Serum #1313-1316) by Luminex PRA - class II**

<b>Method: Luminex - Luminex PRA</b>											
<b>*** Serum 1313 ***</b>			<b>*** Serum 1314 ***</b>			<b>*** Serum 1315 ***</b>			<b>*** Serum 1316 ***</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
DR4	67%	100%	DQ2	67%	100%	DQ7	67%	100%	DR17	67%	100%
DR53	33%	100%	DR7	67%	100%	DQ8	67%	100%	DR18	67%	100%
			DQA1*02	33%	100%	DQ9	67%	100%	DR13	33%	100%
			DQA1*05	33%	100%	DR1	67%	100%	DR14	33%	100%
						DR10	67%	100%	DR52	33%	100%
						DR11	67%	100%			
						DR4	67%	100%			
						DR7	67%	100%			
						DR9	67%	100%			
						DP14	33%	100%			
						DP17	33%	100%			
						DP18	33%	100%			
						DP28	33%	100%			
						DP9	33%	100%			
						DPA1*01	33%	100%			
						DPA1*02	33%	100%			
						DPA1*03	33%	100%			
						DPw1	33%	100%			
						DPw2	33%	100%			
						DPw3	33%	100%			
						DPw4	33%	100%			
						DPw5	33%	100%			
						DPw6	33%	100%			
						DQ4	33%	100%			
						DR14	33%	100%			
						DR1404	33%	100%			
						DR53	33%	100%			

**Table 26. Summary of the 580<sup>th</sup> Serum Exchange (Serum #1313-1316) by Single Antigen - class II**

Method: Luminex - SAB											
*** Serum 1313 ***			*** Serum 1314 ***			*** Serum 1315 ***			*** Serum 1316 ***		
20 typing Labs			20 typing Labs			20 typing Labs			20 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR53	91%	18%	DQ2	100%	100%	DR14	100%	86%	DR17	95%	100%
DR4	86%	17%	DR7	100%	100%	DPw3	95%	100%	DR18	95%	100%
DPw1	23%	50%	DQA1*05	30%	100%	DR10	95%	100%	DR14	80%	100%
DPw5	23%	50%	DQ5	25%	100%	DR11	95%	100%	DR52	80%	100%
DPw4	5%	60%	DPw5	15%	100%	DR4	95%	100%	DR13	80%	50%
			DR12	15%	50%	DR53	95%	100%	DQ5	45%	50%
			DQ6	15%	17%	DR9	95%	100%	DQ2	45%	20%
			DP19	10%	100%	DQ8	95%	83%	DQ4	35%	50%
			DQA1*03	10%	100%	DQ9	95%	78%	DQA1*05	30%	100%
			DR52	10%	100%	DP18	82%	100%	DR11	25%	100%
			DP13	10%	33%	DP28	82%	100%	DR12	20%	100%
			DP28	10%	33%	DPw6	82%	100%	DQA1*02	15%	100%
			DQ7	10%	20%	DR7	82%	100%	DQ6	15%	17%
			DR4	10%	20%	DPw2	82%	92%	DP13	15%	100%
			DPw3	10%	100%	DP14	85%	100%	DPw6	10%	100%
			DQA1*01	10%	100%	DP17	85%	100%	DQA1*01	10%	100%
			DQA1*04	10%	100%	DP9	85%	100%	DR1403	10%	100%
						DPw4	85%	100%	DR3	10%	100%
						DQ7	85%	88%	DR4	10%	100%
						DR1	85%	86%	DP10	5%	100%
						DP10	70%	100%	DP14	5%	100%
						DPA1*01	70%	100%	DP17	5%	100%
						DQ4	70%	64%	DP18	5%	100%
						DP20	65%	100%	DP19	5%	100%
						DQA1*03	65%	100%	DP20	5%	100%
						DP19	55%	100%	DP23	5%	100%
						DP23	55%	100%	DP28	5%	100%
						DQ2	65%	20%	DP9	5%	100%
						DPA1*03	50%	100%	DPA1*01	5%	100%
						DQA1*05	45%	100%	DPA1*03	5%	100%
						DQA1*06	35%	100%	DPw2	5%	100%
						DP11	35%	50%	DPw3	5%	100%
						DPw1	35%	50%	DPw4	5%	100%
						DP13	30%	33%	DQ7	5%	100%
						DP402	25%	100%	DQ8	5%	100%
						DPA1*04	25%	100%	DQ9	5%	100%
						DQA1*04	25%	100%	DQA1*03	5%	100%

**Table 27. Individual laboratory results for Serum #1313 - #1316 by NIH-Standard - class I**

		**** Serum 1313 ****				**** Serum 1314 ****					**** Serum 1315 ****				**** Serum 1316 ****					
Ctr	% POS	B13		Other	% POS	A1	A11	A26	B8	Other	% POS	A24		Other	% POS	B21	B35	B70	Other	Method
786		+				+	+	+	+			+				+	+	+		STD

STD = NIH-Standard

**Table 28. Individual laboratory results for Serum #1313 - #1316 by Antiglobulin - class I**

**** Serum 1313 ****													**** Serum 1314 ****													
Ctr	% POS	B13	B41	B44	B45	B47	B49	B50	B60	B61	B27	B48	Other	% POS	A1	A11	A26	A23	A24	A25	A34	A36	A66	B8	Other	Method
774	53		+	+	+	+	+	+	+	+	+	+		98	+	+	+	+	+	+	+	+	+			Antiglobulin
786		+													+	+	+							+		Antiglobulin

**** Serum 1315 ****													**** Serum 1316 ****												
Ctr	% POS	A24	A23	A25	A32	B27	B37	B38	B44	B47	B49	Other	% POS	B49	B50	B70	B35	B41	B44	B45	B47	B48	B51	Other	Method
774	82	+	+	+	+	+	+	+	+	+	+	B51,B52,B53,B63 >	82	+	+	+	+	+	+	+	+	+	+	B60,B61,B62,B52 >	Antiglobulin
786		+												+	+	+	+								Antiglobulin

**Table 29. Individual laboratory results for Serum #1313 - #1316 by C1q - class I**

**** Serum 1313 ****										**** Serum 1314 ****																																						
Ctr	% POS	B13							Other	% POS	A1	A11	A23	A24	A25	A26	A34	A36	A43	A80	B51	B54	B59	B64	B65	B73	B75	B76	B8	Cw18	Cw6	Cw7	A66	B18	B39	B42	B46	B48	B55	B60	B61	B7	B78	B81	Other	Method		
786		+									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,B53	C1q	
2400		+									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B67	C1q
3753		+									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A6601, A2402	C1q		

**** Serum 1315 ****										**** Serum 1316 ****																																						
Ctr	% POS	A23	A24	A25	A32	B49	B51	B53	Other	% POS	B35	B49	B50	B51	B53	B72	B13	B45	B62	B71	B75	B78	B41	B44																					Other	Method		
786		+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+																								C1q
2400		+	+	+	+	+	+	+	B57,B58>		+	+	+	+	+	+	+	+	+	+	+	+	+	+																					B60,B61>	C1q		
3753		+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+																								C1q



**Table 30. Individual laboratory results for Serum #1313 - #1316 by Luminex PRA - class I**

**** Serum 1313 ****																										
Ctr	% POS	B13	B41	B44	B45	B47	B49	B50	B53	B60	B61	B62	B7	B72	B75	B77	B81	B2708	B38	B46	B48			Other	Method	
2400	77																								LMX-PRA	
3753	66	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+				B51,B56	LMX-PRA	
8043	25	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+				B52,B703,B63,B76 >	LMX-PRA

**** Serum 1314 ****																																
Ctr	% POS	A1	A11	A23	A24	A25	A26	A34	A36	A80	B18	B35	B38	B41	B45	B48	B50	B51	B56	B60	B61	B62	B65	B71	B72	B78	B8	B82	A43	A66	Other	Method
2400	100																															LMX-PRA
3753	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B39	LMX-PRA
8043	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw6,Cw403,B53,B75 >	LMX-PRA

**** Serum 1315 ****																																
Ctr	% POS	A23	A24	A25	A32	B13	B37	B38	B44	B47	B49	B52	B53	B57	B58	B59	B63	B77	A2	A203	A2403										Other	Method
2400	79																															LMX-PRA
3753	84	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+													B35,Bw4	LMX-PRA
8043	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										B27,B51,A68,A80 >	LMX-PRA

**** Serum 1316 ****																																
Ctr	% POS	A24	B13	B18	B35	B37	B38	B41	B44	B45	B46	B47	B48	B49	B50	B52	B53	B55	B56	B57	B58	B60	B61	B62	B63	B64	B71	B72	B77	B78	Other	Method
2400	98																															LMX-PRA
3753	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,B54,A23,A69 >	LMX-PRA
8043	40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B51,B82,B75,B703 >	LMX-PRA

**Table 31. Individual laboratory results for Serum #1313 by Luminex SAB - class I**

		**** Serum 1313 ****																																																				
Ctr	% POS	B41	B44	B45	B47	B49	B50	B60	B61	B62	B72	B76	B77	B75	B13	B38	B53	B27	B71	B7	B48	B51	B52	B81	B35	B59	B63	B39	B56	B57	B46	B37	B78	B58	B2708	Bw4	Other	Method																
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB														
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB															
774	70	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB													
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB													
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		LMX-SAB												
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB													
3224	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB												
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB												
3766	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B8101,B2705,B7801,B3901	LMX-SAB												
3808	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB											
3966		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB										
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	B67,B73,Cw2	LMX-SAB									
5219	16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	B40,B15,B70,B21 >	LMX-SAB								
6649	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	B73	LMX-SAB							
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	B67,B73	LMX-SAB						
8086	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB						
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB					
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	Bw6,B12C,B5C,B8C >	LMX-SAB				
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB				
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	B40,B15,B2705	LMX-SAB		
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB		
8125		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B4005	LMX-SAB

**Table 32. Individual laboratory results for Serum #1314 by Luminex SAB - class I**

		**** Serum 1314 ****																																																															
Ctr	% POS	A1	A23	A24	A25	A26	A34	A36	A43	A80	B18	B35	B38	B41	B42	B45	B50	B53	B54	B55	B56	B59	B60	B61	B62	B64	B65	B67	B7	B71	B72	B73	B75	B76	B77	B8	B82	Cw18	Cw6	Cw7	B51	B37	B48	B78	B81	A11	B39	Cw4	A66																
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									
774	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
3224	66	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
3766	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
3808	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
3966		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
5219	50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
6649	68	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
8086	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8125		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Table 32. Individual laboratory results for Serum #1314 by Luminex SAB - class I, cont.**

**** Serum 1314 ****								
Ctr	B2708	Cw17	Cw15	Cw1	Cw12	A6601	Other	Method
615	+	+	+			+	B27,A6601,A2402,B2708	LMX-SAB
725	+							LMX-SAB
774	+						Bw6	LMX-SAB
786		+	+	+	+	+	B27,A33,A3,A1101 >	LMX-SAB
910	+					+	A3,Bw6,A2402	LMX-SAB
2400		+	+	+	+		B27	LMX-SAB
3224	+	+	+	+	+		A33,A3,Bw6,Cw10 >	LMX-SAB
3753	+	+				+	A3,Bw6,A2402	LMX-SAB
3766	+	+	+	+	+	+	B8101,B7801,A1101,A1102 ,A2402>	LMX-SAB
3808	+					+	Cw403,B703,B8101,B7801 >	LMX-SAB
3966		+	+	+	+		B27,Cw2,Cw5	LMX-SAB
4322	+	+	+	+	+	+	B52,A32,A33,A68 >	LMX-SAB
5219	+					+	Cw403,A9,B40,B15 >	LMX-SAB
6649	+			+			A33,A3	LMX-SAB
8082	+	+	+	+	+	+	B52,A32,A33,A3 >	LMX-SAB
8086		+	+	+	+		B27,Cw10,Cw2,Cw9 >	LMX-SAB
8090		+	+	+	+		B27	LMX-SAB
8098	+						B703,A33,Bw4,Bw6 >	LMX-SAB
8100		+	+	+	+	+	B27,A3,Bw6,Cw10 >	LMX-SAB
8103	+					+	Cw403,B40,B15,B27 >	LMX-SAB
8112		+	+	+	+		B27,Cw2,Cw5,Cw14 >	LMX-SAB
8125		+	+		+		A30,A33,A3,B46 >	LMX-SAB

**Table 33. Individual laboratory results for Serum #1315 by Luminex SAB - class I**

		**** Serum 1315 ****																															
Ctr	% POS	A23	A24	B13	B37	B38	B44	B47	B49	B51	B52	B53	B57	B58	B59	B63	B77	A25	A32	A80	B76	A2	B27	A69	B35	A68	A1	Bw4	B2705	A2403	Other	Method	
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				B2705	LMX-SAB	
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB	
774	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX-SAB	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				B60,B61,B48,B78 >	LMX-SAB	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB	
3224	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78	LMX-SAB	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB
3766	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203	LMX-SAB	
3808	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB
3966		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B18,Cw5	LMX-SAB
5219	25	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A9,B15,A10,B21 >	LMX-SAB
6649	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			B78	LMX-SAB
8086	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B12C,B5C,B8C,B7C >	LMX-SAB
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX-SAB
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15	LMX-SAB
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB
8125		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX-SAB

Table 34. Individual laboratory results for Serum #1316 by Luminex SAB - class I

**** Serum 1316 ****																																																				
Ctr	% POS	B13	B35	B37	B38	B44	B47	B49	B51	B52	B53	B57	B58	B59	B63	B76	B77	B18	B41	B45	B46	B50	B55	B60	B61	B62	B71	B72	B75	B56	B64	B78	B39	A24	B54	B48	B67	A23	B8	Cw10	Cw9	Cw4	A2	B65	A69	Other	Method					
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A68,B42,Cw1,Cw5 >	LMX-SAB				
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82	LMX-SAB			
774	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX-SAB		
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A68,B42,Cw15	LMX-SAB		
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A1,A25,A32,A68 >	LMX-SAB		
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX-SAB		
3224	67	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A25,A32,A68,A43 >	LMX-SAB			
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX-SAB		
3766	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,A68,B42,A2403 >	LMX-SAB		
3808	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B7801,B3901	LMX-SAB		
3966		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B42	LMX-SAB	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,A25,A34,A32 >	LMX-SAB	
5219	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B70,B21 >	LMX-SAB		
6649	62	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A68,B42	LMX-SAB		
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A25,A34,A32,A68 >	LMX-SAB	
8086	45	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw1	LMX-SAB		
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX-SAB	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,B703,Bw4,Bw6 >	LMX-SAB	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B5C	LMX-SAB	
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B82,B7 >	LMX-SAB	
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX-SAB
8125		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B42,Cw15,B4005	LMX-SAB

**Table 35. Individual laboratory results for Serum #1313 - 1316 by C1q - class II**

Ctr	**** Serum 1313 ****				**** Serum 1314 ****				**** Serum 1315 ****					**** Serum 1316 ****				Method		
	% POS			Other	% POS	DQ2		Other	% POS	DR4	DR53	DP20	DP28	Other	% POS				Other	
2400	0					+				+	+	+	+	DPw2,DPw3,DPw4,DPw6	0					C1q
3753	0				0					+	+				0					C1q

**Table 36. Individual laboratory results for Serum #1313 - 1316 by Luminex PRA - class II**

Ctr	**** Serum 1313 ****				**** Serum 1314 ****					**** Serum 1315 ****										**** Serum 1316 ****				Method	
	% POS	DR4	DR53	Other	% POS	DQ2	DR7	DQA1*02	Other	% POS	DQ7	DQ8	DQ9	DR1	DR10	DR11	DR4	DR7	DR9	Other	% POS	DR17	DR18		Other
2400	14				26					94											31				LMX-PRA
3753	13	+			27	+	+			83	+	+	+	+	+	+	+	+	+		57	+	+	DR13,DR14	LMX-PRA
8043	6	+	+		6	+	+	+	DQA1*05	43	+	+	+	+	+	+	+	+	+	DR14,DR1404,DR53,DQ4 >	4	+	+	DR52	LMX-PRA



**Table 37. Individual laboratory results for Serum #1313 - 1314 by Luminex Single Antigen - class II**

**** Serum 1313 ****							**** Serum 1314 ****									
Ctr	% POS	DR53	DR4	DPw1	DPw5	Other	% POS	DQ2	DR7	DQA1*05	DQ5	DPw5	DR12	DQ6	Other	Method
615		+	+					+	+							LMX-SAB
774	3	+	+				31	+	+							LMX-SAB
910		+	+					+	+						DRB3*01:01,DRB3*03:01,DQA1*05:01	LMX-SAB
2400		+	+					+	+							LMX-SAB
3224	7	+	+				9	+	+		+					LMX-SAB
3753		+	+					+	+							LMX-SAB
3766	58	+	+	+	+	DPA1*02:01/DPB1*01:01, DPA1*02:02/DPB1*05:01	38	+	+	+					DQA1*05:01	LMX-SAB
3808	2	+	+				6	+	+							LMX-SAB
3966		+	+	+	+			+	+	+					DP19	LMX-SAB
4322		+	+	+	+			+	+	+	+	+	+	+	DR52,DQA1*01,DQA1*03,DQA1*04	LMX-SAB
5219	3	+	+				6	+	+							LMX-SAB
6649	8	+	+				8	+	+							LMX-SAB
8082		+	+	+	+			+	+	+	+	+	+	+	DR4,DR52,DPw3,DP13 >	LMX-SAB
8086	7	+		+	+	DPw4	17	+	+		+	+	+	+	DR4,DQ7,DP13,DP28	LMX-SAB
8090		+	+					+	+		+					LMX-SAB
8098		+	+					+	+							LMX-SAB
8100		+	+					+	+						DQ7	LMX-SAB
8103		+	+					+	+							LMX-SAB
8112		+	+					+	+	+					DP19	LMX-SAB
8125		+	+					+	+	+						LMX-SAB

**Table 38. Individual laboratory results for Serum #1315 by Luminex Single Antigen - class II**

		**** Serum 1315 ****																																					
Ctr	% POS	DR14	DPw3	DR10	DR11	DR4	DR53	DR9	DQ8	DQ9	DP18	DP28	DPw6	DR7	DPw2	DP14	DP17	DP9	DPw4	DQ7	DR1	DP10	DPA1*01	DQ4	DP20	DQA1*03	DP19	DP23	DQ2	DPA1*03	DQA1*05	DQA1*06	DP11	DPw1	Other	Method			
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											DRB1*14:01, DRB1*14:54	LMX-SAB		
774	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+														LMX-SAB
910		+																																		DR13,DR17,DR18,DR52	LMX-SAB		
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	DP13	LMX-SAB	
3224	61	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP13,DPA1*04,DQA1*04	LMX-SAB	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP402,DP401,DRB1*14:01	LMX-SAB	
3766	88	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP13,DP402,DP401,DRB1*14:01, DRB1*14:54,DPA1*01:03/DPB1*01:01, DPA1*01:03/DPB1*11:01>	LMX-SAB		
3808	41	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1404,DP402	LMX-SAB		
3966		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPA1*02,DPA1*04,DQA1*04	LMX-SAB	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPA1*02,DPA1*04,DQA1*02,DQA1*04	LMX-SAB	
5219	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR5,DR6,DR1404,DQ3 >	LMX-SAB	
6649	62	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX-SAB	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPA1*04,DQA1*02,DQA1*04	LMX-SAB	
8086	52	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP13	LMX-SAB	
8090		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQB1*04:01,DRB1*14:01, DRB1*14:54	LMX-SAB	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1404,DPA1*04	LMX-SAB	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP13	LMX-SAB	
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1404,DQ3,DP402	LMX-SAB	
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP13,DQA1*02,DQA1*04	LMX-SAB	
8125		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP26	LMX-SAB	

**Table 39. Individual laboratory results for Serum #1316 by Luminex Single Antigen - class II**

**** Serum 1316 ****														
Ctr	% POS	DR17	DR18	DR14	DR52	DR13	DQ5	DQ2	DQ4	DQA1*05	DR11	DR12	Other	Method
615		+	+	+	+	+	+	+			+	+	DQA1*02,DQB1*05:02	LMX-SAB
774	26	+	+											LMX-SAB
910				+						+	+		DR1,DR4,DR7,DR9,DRB1*14:01,DRB1*14:54,DQA1*03:01, DQA1*03:03,DQA1*05:01,DPA1*01:03,DPA1*03:01>	LMX-SAB
2400		+	+	+	+	+								LMX-SAB
3224	15	+	+	+	+	+	+	+						LMX-SAB
3753		+	+	+	+	+								LMX-SAB
3766	74	+	+	+	+	+	+	+	+	+	+	+	DR4,DPw6,DQ6,DP13,DQA1*01:02/DQB1*05:02, DQA1*02:01/DQB1*04:01,DPA1*03:01/DPB1*13:01, DQA1*01:01/DQB1*06:02,DQA1*01:02/DQB1*06:04>	LMX-SAB
3808	3	+	+											LMX-SAB
3966		+	+	+	+	+	+	+	+	+				LMX-SAB
4322		+	+	+	+	+	+	+	+	+	+	+	DQ6,DQA1*01,DQA1*02,DQA1*04	LMX-SAB
5219	2	+	+	+	+								DR3	LMX-SAB
6649	11	+	+	+	+	+								LMX-SAB
8082		+	+	+	+	+	+	+	+	+	+	+	DQA1*01,DQA1*02	LMX-SAB
8086	8	+	+			+	+	+	+				DQ6	LMX-SAB
8090		+	+	+	+	+				+			DRB3*01:01,DRB3*03:01,DQB1*05:02,DQA1*05:01	LMX-SAB
8098		+	+	+	+	+							DR1403	LMX-SAB
8100		+	+	+	+	+			+				DP13	LMX-SAB
8103		+	+	+	+	+							DR3,DR1403	LMX-SAB
8112		+	+	+	+	+		+						LMX-SAB
8125		+	+	+	+	+	+	+	+					LMX-SAB