

UK NEQAS for H&I - SCHEME 3 - HLA ANTIBODY SPECIFICITY ANALYSIS

CLASS I HLA ANTIBODY SPECIFICITY ANALYSIS OF 3 01/2016

DESPATCHED ON 26TH JANUARY 2016

Lab no.	Techniques used IgG	Sample Treatment IgG	High Background	Neg control serum batch	Allele Specific Antibodies IgG	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative
9	Luminex	Dilution	No			LS1A04	400	14534	405								
11	Luminex	None	No	NC15		LS1A04	500	293	10705	LSM12	2.5	176	7546				
12	Luminex	EDTA	Yes	15		LS1A04	500	18884	2912		3	587	17010				
14	Luminex	Heat Inactivation, EDTA	Yes	15		LS1A04	1500	19570	265								
15	Luminex	EDTA	No			LS1PRA	1000	162268	381.99								
19	Luminex	EDTA wash buffer	No		A*34:01; B*13:02	LS1A04	1000	21572	512								
20	CDC + Luminex	EDTA	Yes	15	B*13:02, 40:02	LS1A04	500	15502	564								
23	Luminex	None	No	15		LS1A04	1000	16262	167								
24	Luminex	EDTA, Adsorption beads	Yes	15	B*13:02, 40:02	LS1A04	1000	16158	690	LS1PRA	1000	18542	2158	LSAI		19944	147
25	Luminex	EDTA	Yes	15													
26	Luminex	EDTA	No		B*13:02, 40:02	LS1A04	1000	17266	585								
28	Luminex	None	No			LS1A04	500	15715	812								
34	Luminex	EDTA	No	15		LS1A04	602	18622	228								
35	CDC + Luminex	None	No			LS1A04	1000	18984	155								
38	Luminex	EDTA	No			LS1A04	1702	20775	461	LSAI	715	19115	131				
39	Luminex	EDTA wash buffer	No	14	A*34:01	LS1A04	1500	16979	293								
41	Luminex	None	No			LS1A04	2000	16058	264								
42	Luminex	EDTA	No		B*13:02, 27:05	LS1A04	1000	17427	801								
45	Luminex	EDTA, Adsorption beads	Yes	15		LS1A04	1500	19057	645								
48	Luminex	Heat Inactivation, Adsorption beads	Yes	21													
51	Luminex	EDTA	No		B*13:02, 40:02	LS1A04	850	12974	378								
54	Luminex	Adsorption beads	Yes	15	A*13:02, B*34:01	LS1A04	800	16866	1606	LSM12	>350	12939	120				
58	Luminex	EDTA	Yes	15		LSM12	>3	11820	158	LSAI	1000	15775	1680	LMX		16683	
62	Luminex	None	No	08215B	A*34:01	LS1A04	1000	19358	900								
100	Luminex	None	No		B*27:05	LSAI	783	18608	189								
101	Luminex	None	No		A*34:01; B*13:02	LS1A04	1000	16158	460								
112	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
114	CDC + Luminex	EDTA, Adsorption beads	Yes	15	A*34:01	LS1A04	1000	17285	461								
116	CDC + Luminex	Adsorption beads	Yes	15		LS1A04	1000	15604	909	LSM12		12355	306				
117	Elisa + Luminex	Adsorption beads	Yes			LS1A04	500	20537	238								
119	Luminex	EDTA	No	14	B*13:02	LS1A04	1000	13507	207	LSM12	1.5	12737	162				
120	Luminex	EDTA, Adsorption beads	Yes		B*13:02, 40:02	LS1A04	500	17155	716								
133	Luminex	None	No		A*66:01/02; B*27:05/08	LSA1		18611	147								
136	CDC + Luminex	Adsorption beads	No		A*34:01	LS1A04	1000	19542	447								
139	Luminex	None	Yes	LSNC16	A*34:01	LS1A04	1000	14934	672	LSM12	6	12203	180				
142	Luminex	EDTA	No			LS1A04	1000	13923	352								
143	Luminex	None	No	15		LS1A04	1000	13469	333								
145	Luminex	None	No	NC15	B*13:02	LS1A04	1000	14866	394	LSM12	1.5/1.2	7991	49				
147	CDC + Luminex	None	No			LS1A04	<1500	14453	260	LSM12	>5	9326	29				
149																	
157	Luminex	EDTA	No	14	A*34:01	LS1A04	1000	17178	438								
159	CDC + Luminex	None	No			LS1A04	1500	14884	550								
160	Luminex	Adsorption beads	No		OLINS	LS1A04	500	11300	347								
162	Luminex	EDTA	No			LS1A04	1000	19399	1000	LSM12	3	19670	468				
163	Luminex	EDTA	Yes	857	A*34:01	LS1A04	1500	17758	857								
164	Luminex	None	No			LS1A04	1500	5977	192								
165	Flow + Elisa + Luminex	Dilution	No	15.1		LS1A04	78	18448	235								
169	Luminex	Dilution	No			LS1A04	1000	17285	461								
181	Luminex	None	No			LS1A04	500	1648	734								
185	Luminex	EDTA	No			LSAI		20363	179	LM1		21870	226				
186	Luminex	None	No			LS1A04	1000	14866	1460	LSAI	1000	19933	170				
190	Luminex	None	No			LS1A04	1000	17965	899								
193	Luminex	None	Yes	16	A*34:01	LS1A04	1000	16202	776								
194	CDC + Luminex	DTT	No			LS1A04											
195	Luminex	None	Yes			LS1A04	1400	17900	1040								
197	Luminex	None	No														
204	Luminex	EDTA	Yes	LSNC		LS1A04	1000	18734	840								
206	Luminex	EDTA	Yes	15		LS1A04	1000	15588	725								
209	CDC + Luminex	EDTA	No		B*40:02	LS1A04	500	3000	500								
218	Luminex	Heat Inactivation	No		A*66:01/02; B*27:05/08	LSAI		17101	140								
227	Luminex	EDTA, Dilution	Yes	1000													
232	Luminex	None	No	NC15		LS1A04		12671	538								
235	Luminex	DTT	No	54424		LS1PRA	1000	12585	327	LSM12	1000	10200	137				
236	Luminex	None	No	201	CREG B7	LSAI	5000	20667		LM1	1000	20174					
245	Luminex	EDTA	No			LS1A04	1000/500	19389	535								
262	Luminex	None	No			LSAI	ADBCR>5	19008	303								
267	Luminex	None	No			LSAI	BCM>500	20429	179	LMX		18460	187, 108, 114				
268	CDC + Luminex	None	No			LSAI	1500	18605	189	LM1	1000	21483	212, 47, 81				
273	Luminex	None	No			LS1A04	1523	19371	300								
277	Luminex	EDTA	No	LSNC15	A*34:01; B*40:02	LS1A04	500	16635	411								
284	Luminex	EDTA	No		A*34:01	LS1A04	MFI >1000	14273	414	LSM12	ratio >3	10258	87				
292	Luminex	EDTA	No	54513	A*34:01	LS1A04	500	15169	238	LSM12	2.5	12155	78				
293	Luminex	None	No			LS1A04	500	13853	468	LS1PRA	500	13853	468				
294	CDC + Luminex	None	No			LSAI		18470									
297	Luminex	EDTA, Adsorption beads	Yes			LS1A04	1500	15227	751								
303	Luminex	EDTA, Dilution	Yes	15		LS1A04	1000	14805	527								
309	Luminex	None	No			LSAI	21000	136		LM1	600	20000	200				
311	Luminex	EDTA, Adsorption beads	Yes			LS1A04	1500	18754	705								
315	Luminex	EDTA	No			LS1A04	2000	18133	1188								
323	Luminex	EDTA	No			LS1A04	1000	17099	908								

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex O = Other

UK NEQAS for H&I - SCHEME 3 - HLA ANTIBODY SPECIFICITY ANALYSIS

CLASS I HLA ANTIBODY SPECIFICITY ANALYSIS OF 3 02/2016

DESPATCHED ON 26TH JANUARY 2016

HLA specificity for assessment																								
Lab no.	B37 Not Assessed 10.1%			B47 Not Assessed 7.6%			B53 Not Assessed 11.4%			B59 Not Assessed 11.4%			B82 Not Assessed 7.6%			Cw1 Not Assessed 8.9%			Cw12 Not Assessed 11.4%			Cw15 Assess 3.8%		
	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI
11	B37	spec	L		<2000																			
12	B37	L			<2000	B47	L		<2000	B53	L		<2000	B59	L		<2000	B82	L		<2000			
14																								
15																								
19	B37	L			<2000																			
20																								
23																								
24																								
25																								
26																								
28																								
34																								
35																								
38																								
39																								
41																								
42	B37	L			<2000	B47	L		<2000	B53	L		<2000	B59	L		<2000	B82	L		<2000			
45																								
48																								
51																								
54																								
58																								
62																								
100																								
101																								
112	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
114																								
116																								
117																								
119																								
120																								
133																								
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142																								
143																								
145																								
147																								
149																								
157																								
159																								
160																								
162																								
163																								
164																								
165	B37	F				B47	F																	
169																								
181																								
185																								
186																								
190																								
193																								
194																								
195																								
197																								
204	B37	L			<2000	B47	L		<2000	B53	L		2000-5000	B59	L		<2000	B82	L		<2000	Cw1	L	
206																								
209																								
218																								
227																								
235																								
238																								
245	B37	L			<2000	B47	L		<2000	B53	L		<2000	B59	L		<2000	B82	L		<2000	Cw1	L	
262																								
267																								
268																								
273																								
277																								
284																								
292	B37	L			<2000	B47	L		<2000	B53	L		<2000	B59	L		<2000	B82	L		<2000	Cw1	L	
293																								
294																								
297																								
303																								
309																								
311																								
315																								
323																								

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Lumines; O = Other

Number	8	< 2000	6	< 2000	9	< 2000	6	< 2000	7	< 2000	9	< 2000	3	< 2000
Total number	79	7	79	5	79	7	79	8	79	3	79	5	79	3
		2000-5000		2000-5000		2000-5000		2000-5000		2000-5000		2000-5000		2000-5000
		0		0		1		0		4		4		0
		> 5000		> 5000		> 5000		> 5000		> 5000		> 5000		> 5000
		0		0		1		0		4		4		0

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CLASS I HLA ANTIBODY SPECIFICITY ANALYSIS OF 3 02/2016

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Lab no.	Techniques used IgG	Sample Treatment IgG	High Background	Neg control serum batch	Allele Specific Antibodies IgG	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative
9	Luminex	None	No		B*27:05	LS1A04	300	7594	412								
11	Luminex	None	No	NC15		LS1A04	500	349	11117	LSM12	2.5	258	6812				
12	Luminex	EDTA	Yes	15	B*15:11, 27:05	LS1A04	500	18710	905	LSM12	3	14941	1151				
14	Luminex	Heat inactivation, EDTA	No	15	A*33:01	LS1A04	1500	16982	163								
15	Luminex	EDTA	No	15	A*66:02; B*15:11	LS1A04	1000	17376	292								
19	Luminex	EDTA wash buffer	No			LS1A04	1000	16901	100								
20	CDC + Luminex	EDTA	No	15		LS1A04	500	16114	374								
23	Luminex	None	No	15		LS1A04	1000	17361	1164								
24	Luminex	EDTA	No	15		LS1A04	1000	16839	138	LS1PRA	1000	17551	814	LSAI		20120	244
25	Luminex	EDTA	No			LS1A04	1000	15538	622	LSAI	1000	20534	221				
26	Luminex	None	No			LS1A04	1000	18338	218								
28	Luminex	None	No			LS1A04	500	17826	622								
34	Luminex	EDTA	No	15		LS1A04	1000	16931	278								
35	CDC + Luminex	None	No			LS1A04	1000	19942	455								
38	Luminex	EDTA	No			LS1A04	1718	20053	484	LSAI	694	20783	227				
39	Luminex	EDTA wash buffer	No	14	B*15:11	LS1A04	1700	18118	325								
41	Luminex	None	No		B*44:03, 57:03	LS1A04		15946	645								
42	Luminex	EDTA	No		B*27:05, 51:02	LS1A04	1000	11663	958								
45	Luminex	EDTA, Adsorption beads	No	15		LS1A04	1500	18505	206								
48	Luminex	Heat inactivation	No	21													
51	Luminex	EDTA	No			LS1A04	750	14644	450								
54	Luminex	Adsorption beads	Yes	15		LS1A04	750	17332	146	LSM12	>350	12181	405				
58	Luminex	EDTA	No	15		LSM12	>3	11266	451	LSAI	1000	14199	568	LMX		20211	
62	Luminex	None	No		B*15:11	LS1A04	1000	19510	36930								
100	Luminex	None	No	08215B		LSAI	763	18574	295								
101	Luminex	None	Yes		B*15:11	LS1A04	1000	17200	266								
112	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
114	CDC + Luminex	EDTA, Adsorption beads	No			LS1A04	1000	17503	86								
116	CDC + Luminex	Adsorption beads	Yes	15		LS1A04	1000	16300	115	LSM12		14310	544				
117	Elisa + Luminex	Adsorption beads	Yes			LS1A04	500	16829	159								
119	Luminex	EDTA	No	14	B*57:03	LS1A04	1000	14664	86	LSM12	1.5	12342	754				
120	Luminex	EDTA	No		A*24:03; B*15:11, 27:05	LS1A04	500	16443	454								
133	Luminex	None	No		B*44:02/03, 45:01, 57:01, 58:01	LSAI	15222	366									
136	CDC + Luminex	Adsorption beads	Yes			LS1A04	1000	17908	84								
139	Luminex	None	Yes	LSNC16		LS1A04	1000	15645	501	LSM12	6	10369	59				
142	Luminex	EDTA	No			LS1A04	1000	14079	434								
143	Luminex	None	No	15		LS1A04	1000	13653	307								
145	Luminex	Adsorption beads	Yes	NC15	B*15:11	LS1A04	1000	11386	86	LSM12	1.5/1.2	7991	49				
147	CDC + Luminex	None	Yes			LS1A04	>1500	9784	75	LSM12	>5	10593	92				
149																	
157	Luminex	EDTA	Yes	14	B*15:11	LS1A04	1000	18175	628								
159	CDC + Luminex	None	No		B*15:11	LS1A04	1500	13404	500								
160	Luminex	Adsorption beads	No	OLINS		LS1A04	500	1500	500								
162	Luminex	EDTA	No		B*15:11	LS1A04	1000	18308	539	LSM12	85	11824	428				
163	Luminex	EDTA	No			LS1A04	1500	18311	313								
164	Luminex	None	No			LS1A04	1500	16003	287								
165	Flow + Elisa + Luminex	Dilution	No	15.1		LS1A04	29	13404	623								
169						LS1A04	1000	18200	391								
181	Luminex	None	No		B*27:05	LS1A04	500	15790	413								
185	Luminex	EDTA	No		B*15:16	LSAI	21173	305	LM1			22601	1623				
186	Luminex	None	No			LS1A04	1000	14698	1380	LSAI	1000	20366	336				
190	Luminex	EDTA	No			LS1A04	1000	19000	576								
193	Luminex	None	No	16		LS1A04	1000	17142	457								
194	CDC + Luminex	DTT	No			LS1A04											
195	Luminex	Adsorption beads	No			LS1A04	1400	17140	315								
197	Luminex	None	No														
204	Luminex	EDTA	Yes	LSNC	B*15:11	LS1A04	1000	17858	721								
206	Luminex	EDTA	No	15		LS1A04	1000	15820	274								
209	CDC + Luminex	EDTA	No		B*15:11	LS1A04	500	3000	500								
218	Luminex	Heat inactivation	No		A*33:01; B*57:01, 58:01	LSAI		17158	176								
227	Luminex	EDTA, Dilution	No														
232	Luminex	None	No	NC15		LS1A04		12626	290								
235	Luminex	DTT	No	54424		LS1PRA	1000	11720	65	LSM12	1000	12110	117				
238	Luminex	None	No			LSAI	500	20073	2073	LM1	1000	20725					
245	Luminex	EDTA	No	345	B*15:11, 27:05, 51:02	LS1A04	1000/500	18281	454								
262	Luminex	None	No			LSAI	ADBCR>5	20352	272								
267	Luminex	S.Clean	Yes			LSAI	BCM<500	20228	426	LMX		21368	330, 112, 769				
268	CDC + Luminex	None	No			LSAI	1500	19066	289	LM1	1000	21344	800, 182, 980				
273	Luminex	None	No		B*15:11	LS1A04	500	16347	473								
277	Luminex	EDTA	No	LSNC15	B*15:11, 27:05	LS1A04	500	16181	400								
284	Luminex	EDTA	No			LS1A04	MFI >1000	14907	370	LSM12	ratio >3	10923	138				
292	Luminex	EDTA, Adsorption beads	Yes	54513	B*15:11, 27:05	LS1A04	500	16871	290	LSM12	2.5	11660	595				
293	Luminex	None	No			LS1A04	500	13983	272	LS1PRA	500	13983	272				
294	CDC + Luminex	None	No			LSAI		17539									
297	Luminex	EDTA, Adsorption beads	No			LS1A04	1500	14059	185								
303	Luminex	EDTA, Adsorption beads	Yes	15	B*15:11, 27:05	LS1A04	1000	16404	120								
309	Luminex	None	No			LSAI	630	19800	327								
311	Luminex	EDTA	No			LS1A04	1500	16311	386	LM1	600	19800	250				
315	Luminex	EDTA	No			LS1A04	2000	13875	530								
323	Luminex	EDTA	No			LS1A04	1000	16295	531								

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex O = Other

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CLASS I HLA ANTIBODY SPECIFICITY ANALYSIS OF 3 03/2016

DESPATCHED ON 26TH JANUARY 2016

HLA specificity for assessment		A1 Absent 3.8%		A3 Absent 1.3%		A24 Not Assessed 17.5%		A2403 Not Assessed 55.7%		A25 Present 100.0%		A26 Present 98.7%		A34 Present 100.0%		A66 Present 100.0%		A11 Present 100.0%		A29 Present 100.0%		A30 Present 100.0%		A31 Present 100.0%				
Lab No	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	
9	A1	L	<2000				A24																					
11									A2403																			
12	A1	L	<2000																									
14																												
19																												
20																												
23																												
24																												
25																												
26																												
28																												
34																												
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51																												
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56																												
62																												
64																												
68																												
100																												
101	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
112																												
114																												
116																												
117																												
120																												
119																												
133																												
136																												
138																												
142																												
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157																												
159																												
162																												
163																												
164																												
165																												
169																												
181																												
185																												
186																												
190																												
193																												
194																												
195																												
197	A1	L																										
204																												
206																												
209																												
217																												
228																												
232																												
235																												
238																												
245																												
262																												
267																												
268																												
273																												
284																												
292																												
293																												
294																												
303																												
311																												
315																												
323																												

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

Number	3	< 2000	1	< 2000	14	< 2000	79	< 2000	78	< 2000	79	< 2000	79	< 2000	79	< 2000	79	< 2000	79	< 2000	79	< 2000	79	< 2000	79	< 2000	79	< 2000
Total number	80	2	80	1	80	13	79	0	79	0	79	0	79	0	79	1	79	11	79	11	79	11	79	16	79	16	79	16
160	0	2000-5000	0	2000-5000	1	2000-5000	0	2000-5000	1	2000-5000	0	2000-5000	1	2000-5000	0	2000-5000	1	2000-5000	59	2000-5000	46	2000-5000	58	2000-5000	46	2000-5000	58	2000-5000
	0	> 5000	0	> 5000	1	> 5000	0	> 5000	1	> 5000	0	> 5000	1	> 5000	0	> 5000	1	> 5000	67	> 5000	67	> 5000	67	> 5000	67	> 5000	67	> 5000

UK NEQAS for H&I - SCHEME 3 - HLA ANTIBODY SPECIFICITY ANALYSIS

CLASS I HLA ANTIBODY SPECIFICITY ANALYSIS OF 3 03/2016

DESPATCHED ON 26TH JANUARY 2016

HLA specificity for assessment		A32 Present 1.8%		A33 Present 100.0%		A74 Absent 1.3%		A68 Present 98.7%		A69 Present 91.1%		A36 Not Assessed 45.6%		A43 Present 97.5%		A80 Absent 1.3%		B51 Absent 1.3%		B5102 Absent 1.3%		B13 Present 91.1%		B64 Absent 1.3%				
Consensus % reported	Lab. spec	tech	MFI	tech	MFI	tech	MFI	tech	MFI	tech	MFI	tech	MFI	tech	MFI	tech	MFI	tech	MFI	tech	MFI	tech	MFI	tech	MFI			
9				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000	A80	L	<2000						
11				A33	L	2000-5000		A68	L	2000-5000	A69	L	<2000	A43	L	>5000							B13	L	2000-5000			
12				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	<2000			
14				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
15				A33	L	2000-5000		A68	L	2000-5000	A69	L	<2000	A43	L	>5000							B13	L	<2000			
19				A33	L	2000-5000		A68	L	2000-5000	A69	L	<2000	A43	L	>5000							B13	L	<2000			
20				A33	L	2000-5000		A68	L	2000-5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
23				A33	L	>5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
24				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
25				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
26				A33	L	2000-5000		A68	L	2000-5000	A69	L	2000-5000				A43	L	>5000				B13	L	<2000			
28				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
34				A33	L	2000-5000		A68	L	2000-5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
35				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
38				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
39				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
41				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
42				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
45				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
48				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	2000-5000	A43	L	>5000				B13	L	>5000			
51				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	2000-5000	A43	L	>5000				B13	L	2000-5000			
54				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
58				A33	L	2000-5000		A68	L	2000-5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
62				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
100				A33	L	2000-5000		A68	L	2000-5000	A69	L	<2000	A36	L	<2000	A43	L	>5000				B13	L	<2000			
101				A33	L	2000-5000		A68	L	2000-5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
112	NT	NT	NT	A33	NT	NT	NT	A68	NT	NT	A69	NT	NT	A36	NT	NT	A43	NT	NT	NT	NT	NT	NT	NT	NT	NT		
114				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
116				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
117				A33	E+L	2000-5000		A68	L	>5000	A69	L	2000-5000	A36	E+L	<2000	A43	L	>5000				B13	L	2000-5000			
118				A33	L	2000-5000	>5000	A68	L	>5000	A69	L	<2000	A36	L	<2000	A43	L	>5000				B51	L	<2000	B5102	L	<2000
120				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
133				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	<2000			
136				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
138				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
142				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
143				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
145				A33	L	2000-5000		A68	L	2000-5000	A69	L	<2000	A43	L	>5000							B13	L	<2000, 2000-5000			
147				A33	L	2000-5000		A68	L	2000-5000	A69	L	<2000	A43	L	>5000							B13	L	<2000			
149				A33	L	2000-5000		A68	L	2000-5000	A69	L	<2000	A43	L	>5000							B13	L	<2000			
157				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	2000-5000	A43	L	>5000				B13	L	>5000			
159				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
160				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
162				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
163				A33	L	2000-5000		A68	L	2000-5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
164				A33	L	>5000		A68	L	>5000	A69	L	>5000				A43	L	>5000				B13	L	>5000			
165				A33	F+E+L	2000-5000		A68	F+L	>5000	A69	F	>5000	A36	F+E	>5000	A43	F+L	>5000				B13	L	>5000			
169	A32	L	2000-5000	A33	F+E+L	2000-5000	A74	L	2000-5000	A68	L	>5000	A69	L	2000-5000	A36	L	>5000	A43	L	>5000		B13	L	2000-5000	B64	L	<2000
181				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
185				A33	L	2000-5000		A68	L	2000-5000	A69	L	<2000	A43	L	>5000							B13	L	<2000			
186				A33	L	2000-5000		A68	L	2000-5000	A69	L	<2000	A43	L	>5000							B13	L	<2000			
190				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
193				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
194				A33	L	2000-5000		A68	L	2000-5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
195				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	2000-5000	A43	L	>5000				B13	L	2000-5000			
197				A33	L			A68	L		A69	L		A36	L		A43	L										
204				A33	L	2000-5000		A68	L	>5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
206				A33	L	2000-5000		A68	L	2000-5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
209				A33	L	2000-5000		A68	L	2000-5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
218				A33	L	<2000		A68	L	<2000	A69	L	2000-5000	A36	L	<2000	A43	L	2000-5000				B13	L	2000-5000			
227				A33	L	>5000		A68	L	>5000	A69	L	2000-5000	A36	L	<2000	A43	L	>5000				B13	L	2000-5000			
232				A33	L	2000-5000		A68	L	2000-5000	A69	L	2000-5000				A43	L	>5000				B13	L	2000-5000			
235				A33	L	>5000		A68	L	>5000	A69	L	2000-5000															

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CLASS I HLA ANTIBODY SPECIFICITY ANALYSIS OF 3 03/2016

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Lab no.	Techniques used IgG	Sample Treatment IgG	High Background	Neg control serum batch	Allele Specific Antibodies IgG	Luminex kit (lot)		Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)		Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)		Control bead MFI Positive	Control bead MFI Negative
						IgG	IgG			IgG	IgG			IgG	IgG		
9	Luminex	Dilution	Yes		A*24:03	LS1A04	300	12730	55								
11	Luminex	None	No	NC15		LS1A04	500	58	10431	LSM12	2.5	64	6411				
12	Luminex	EDTA	No	15	B*15:02, 57:01	LS1A04	500	16984	109	LSM12	3	12279	93				
14	Luminex	Heat Inactivation, EDTA	No	15		LS1A04	1500	18728	75								
15	Luminex	EDTA	No	15		LS1A04	1000	15290	32	LS1PRA	1000	16891	131				
19	Luminex	EDTA wash buffer	No			LS1A04	1000	19575	41								
20	CDC + Luminex	EDTA	No	15		LS1A04	500	16198	27								
23	Luminex	None	No	15	A*24:03	LS1A04	1000	15001	29								
24	Luminex	EDTA	No	15		LS1A04	1000	19164	27	LS1PRA	1000	15992	113	LSAI		20626	199
25	Luminex	EDTA	No		A*24:03	LS1A04	1000	19527	133								
26	Luminex	None	No			LS1A04	1000	12206	87								
28	Luminex	None	No			LS1A04	500	15216	57								
34	Luminex	EDTA	No	15		LS1A04	1000	17285	35								
35	CDC + Luminex	None	No			LS1A04	1000	14606	59								
38	Luminex	EDTA	No			LS1A04	1148	17962	53	LSAI	826	20265	201				
39	Luminex	EDTA wash buffer	No	14		LS1A04	1700	17574	77								
41	Luminex	None	No			LS1A04		13117	58								
42	Luminex	EDTA	No			LS1A04	1000	12887	112								
45	Luminex	EDTA, Adsorption beads	No	15		LS1A04	1500	17200	40								
48	Luminex	Heat Inactivation	No	21		LS1A04		13914	209								
51	Luminex	EDTA	No		B*15:02	LS1A04	900	14737	88	LSM12	>350	10655	17				
54	Luminex	None	No	15	A*24:03	LSM12	>3	9709	15	LSAI	1000	13984	61	LMX		17132	
58	Luminex	EDTA	No			LS1A04	1000	17591	42.8								
62	Luminex	None	No	08215B		LSAI	650	17655	186								
100	Luminex	None	No			LS1A04	1000	13790	31								
101	Luminex	None	No			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
112	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
114	CDC + Luminex	EDTA, Adsorption beads	No		A*24:03	LS1A04	1000	18682	41								
116	CDC + Luminex	None	No	15		LS1A04	1000	13768	57	LSM12		9347	85				
117	Elisa + Luminex	None	No		A*24:03; B*51:02	LS1A04	500	13695	23								
119	Luminex	EDTA	No	14		LS1A04	1000	13673	43	LSM12	1.5	11800	61				
120	Luminex	EDTA	No		A*24:03	LS1A04	500	12547	35								
133	Luminex	None	No		A*11:01/02, 25:01, 26:01, 29:02, 30:01, 31:01, 33:01/03, 34:02, 43:01, 66:01/02, 68:01/02, 69:01; B*13:02	LSAI	16797	254									
136	CDC + Luminex	None	No			LS1A04	1000	17054	33								
139	Luminex	None	No	LSNC16		LS1A04	1000	14067	31	LSM12	6	10369	29				
142	Luminex	EDTA	No			LS1A04	1000	12836	47								
143	Luminex	None	No	15		LS1A04	1000	12716	144								
145	Luminex	None	No	NC15		LS1A04	1000	13570	91	LSM12	1.5/1.2	7991	49				
147	CDC + Luminex	None	No			LS1A04	>1500	13588	48.83	LSM12	>5	9366	29				
149																	
157	Luminex	EDTA	No	14		LS1A04	10000	16621	45								
159	CDC + Luminex	None	No			LS1A04	1500	14359	72								
160	Luminex	Adsorption beads	No	OLINS		LS1A04	500	10200	24								
162	Luminex	EDTA	No			LS1A04	1000	13000	27	LSM12	3	8400	29				
163	Luminex	EDTA	No			LS1A04	1500	17044	25								
164	Luminex	None	No			LS1A04	1500	14244	107								
165	Flow + Elisa + Luminex	Dilution	No	15.1		LS1A04	172	14053	81								
169						LS1A04	1000	14600	31								
181	Luminex	None	No			LS1A04	500	14648	99								
185	Luminex	EDTA	No			LSAI	21125	182	LM1		21455	113					
186	Luminex	None	No			LS1A04	1000	14288	187	LSAI	1000	20360	234				
190	Luminex	None	No			LS1A04	10000	16300	49								
193	Luminex	None	No	16		LS1A04	1000	14564	26								
194	CDC + Luminex	DTT	No			LS1A04	1400	15700	75								
195	Luminex	None	No			LS1A04	1000	13359	29								
197	Luminex	None	No			LS1A04	1000	14031	43								
204	Luminex	EDTA	No	LSNC		LS1A04	500	3000	500								
206	Luminex	EDTA	No	15		LS1A04	500	18087	219								
209	CDC + Luminex	EDTA	No			LSAI											
219	Luminex	Heat Inactivation	No		A*11:01/02, 25:01, 26:01, 29:02, 30:01 (weak), 31:01 (weak), 33:03, 34:02, 43:01, 66:01/02, 68:01/02												
227	Luminex	EDTA, Dilution	No														
232	Luminex	None	No	NC15		LS1A04	11790	24									
235	Luminex	DTT	No	54424		LS1PRA	1000	11154	23	LSM12	1000	9859	152				
236	Luminex	None	Yes	445		LSAI	500	20226	26	LM1	1000	20662					
245	Luminex	EDTA	No		A*24:03	LS1A04	1000/500	15944	36								
262	Luminex	None	No			LSAI	ADBDR>5	19200	234								
267	Luminex	None	No			LSAI	BCM-500	20114	445	LMX	17710	129, 104, 109					
268	CDC + Luminex	None	No			LSAI	1500	17976	187	LM1	1000	21447	151, 126, 143				
273	Luminex	None	No		A*24:03	LS1A04	1630	13327	39								
277	Luminex	EDTA	No	LSNC15	A*24:03	LS1A04	500	14563	50								
284	Luminex	EDTA	No			LS1A04	MFI >1000	13687	33	LSM12	ratio >3	8295	19				
292	Luminex	EDTA	No	54513		LS1A04	500	14805	27	LSM12	2.5	5407	41				
293	Luminex	None	No			LS1A04	500	12604	11	LS1PRA	500	12604	11				
294	CDC + Luminex	None	No			LSAI		17102									
297	Luminex	EDTA	No			LS1A04	1500	19043	118								
303	Luminex	EDTA	No	15		LS1A04	1000	12134	51								
309	Luminex	None	No			LSAI	350	20500	191								
311	Luminex	EDTA	No			LS1A04	1500	15876	39								
315	Luminex	EDTA	No			LS1A04	2000	13240	76								
323	Luminex	EDTA	No			LS1A04	1000	15889	25								

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex O = Other

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HLA specificity for assessment																											
Lab. no.	B54 Absent 3.8%			B56 Absent 2.5%			B35 Present 96.2%			B48 Absent 1.3%			B53 Present 94.9%			B67 Not Assessed 5.1%			B71 Not Assessed 73.4%			B72 Absent 1.3%			B78 Present 81.0%		
	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI
9																											
11	B54	L	<2000																								
12																											
14																											
15																											
19																											
20																											
23																											
24	B54	L	<2000	B56	L	<2000	B35	L	2000-5000																		
25																											
26																											
28																											
34																											
35																											
38																											
39																											
41																											
42																											
45																											
48																											
51																											
54																											
58																											
62																											
101																											
112	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
114																											
116																											
117																											
119																											
120																											
133																											
136																											
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165																											
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181																											
185																											
186																											
190																											
193																											
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197																											
204																											
206																											
209																											
218																											
227																											
232																											
235																											
238																											
245																											
262																											
267																											
268																											
273																											
277																											
284																											
292																											
293																											
294																											
297																											
303																											
309																											
311																											
315																											
323																											

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex O = Other

Number	3	< 2000	2	< 2000	76	< 2000	1	< 2000	75	< 2000	4	< 2000	58	< 2000	1	< 2000	64	< 2000
Total number	79	3	79	27	79	27	79	1	79	32	79	3	79	49	79	1	79	53
	0	2000-5000	0	2000-5000	45	2000-5000	0	2000-5000	40	2000-5000	1	2000-5000	9	2000-5000	0	2000-5000	10	2000-5000
	> 5000	0	> 5000	0	> 5000	0	> 5000	0	> 5000	42	> 5000	1	> 5000	9	> 5000	0	> 5000	> 5000
	0	0	0	47	0	0	0	0	42	0	0	0	0	0	0	0	11	11

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DESPATCHED ON 26TH JANUARY 2016

Techniques used IgG	Sample Treatment IgG	High Background	Neg control serum batch	Allele Specific Antibodies IgG	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative
9	Luminex	None	No		LS1A04	300	14400	46								
11	Luminex	None	No	NC15	LS1A04	500	33	8997	LSM12	2.5	275	2828				
12	Luminex	EDTA	No	15	LS1A04	500	14227	69	LSM12	3	9120	61				
14	Luminex	Heat inactivation, EDTA	No	15	LS1A04	1500	16835	70								
15	Luminex	EDTA	No	15	LS1A04	1000	17652	2095								
19	Luminex	EDTA wash buffer	No		A*30:01	LS1A04	1000	19796	23							
20	CDC + Luminex	EDTA	No	15	LS1A04	500	5208	9								
23	Luminex	None	No	15	LS1A04	1000	15819	44								
24	Luminex	EDTA	No	15	A*68:02	LS1A04	1000	21949	134	LS1PRA	1000	15007	40	LSAI	20442	184
25	Luminex	EDTA	No		LSM12	6.1	10358.12	71								
26	Luminex	EDTA	No		A*30:01	LS1A04	11606	45								
28	Luminex	None	No		A*30:01	LS1A04	500	14145	40							
34	Luminex	EDTA	No	15	A*30:01	LS1A04	765	16859	26							
35	CDC + Luminex	None	No		LS1A04	1000	13665	50								
38	Luminex	EDTA	No		B*51:03	LS1A04	1321	18130	37	LSAI	670	20754	220			
39	Luminex	EDTA wash buffer	No	14	A*30:01	LS1A04	1100	14063	34							
41	Luminex	None	No		B*51:02	LS1A04	12426	483								
42	Luminex	EDTA	No		B*51:01	LS1A04	1000	12674	40							
45	Luminex	EDTA, Adsorption beads	No	15	A*30:01	LS1A04	1500	14281	24							
48	Luminex	Heat Inactivation	No	21												
51																
54	Luminex	None	No	15	A*30:01	LS1A04	400	14279	335							
58	Luminex	EDTA	No	15		LSM12	750	11914	830	LSM12	>350	9448	101			
62	Luminex	None	No			LSAI	>3	9595	22	LSAI	1000	15479	36	LMX	19484	
100	Luminex	None	No	08215B		LSAI	1000	16804	90							
101	Luminex	None	No			LSAI	1159	18030	541							
112	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
114	CDC + Luminex	EDTA	No		A*30:01	LS1A04	1000	17957	45							
116	CDC + Luminex	None	No	15		LS1A04	1000	31323	32	LSM12		7459	44			
117	Elisa + Luminex	None	No		A*29:01, 33:03	LS1A04	500	24	15059	24						
119	Luminex	EDTA	No	14		LS1A04	1000	12507	33	LSM12	1.5	7662	23			
120	Luminex	EDTA	No		A*30:01	LS1A04	500	13477	45							
133	Luminex	None	No		B*35:01/08, 53:01, 78:01	LSAI	1000	17628	256							
136	CDC + Luminex	None	No			LSAI	1000	15622	34							
139	Luminex	None	No	LSNC16		LS1A04	1000	12865	26	LSM12	6	8621	26			
142	Luminex	EDTA	No			LS1A04	1000	12262	50							
143	Luminex	None	No	15		LS1A04	1000	11067	52							
145	Luminex	None	No	NC15		LS1A04	1000	13009	35	LSM12	1.5/1.2	7991	49			
147	CDC + Luminex	EDTA	No			LS1A04	>1500	15815	42	LSM12	>5	8047	28			
149																
157	Luminex	EDTA	No	14		LS1A04	10000	14833	69							
159	CDC + Luminex	None	No			LS1A04	1500	14431	33							
160	Luminex	Adsorption beads	No	OLINS		LS1A04	500	9100	19							
162	Luminex	EDTA	No			LS1A04	1000	14000	36	LSM12	3	8100	59			
163	Luminex	EDTA	No			LS1A04	1500	15110	34							
164	Luminex	None	No			LS1A04	1500	13905	78							
165	Flow + Elisa + Luminex	Dilution	No	15.1		LS1A04	243	13820	57							
169		Dilution	No			LS1A04	1000	14000	32							
181	Luminex	None	No			LS1A04	500	12399	39							
185	Luminex	EDTA	No			LSAI	21160	192	LM1			20981	131			
186	Luminex	None	No			LS1A04	1000	13444	249	LSAI	1000	20310	227			
190	Luminex	EDTA	No			LS1A04	1000	16300	35							
193	Luminex	None	No	16		LS1A04	1000	13844	25							
194	CDC + Luminex	DTT	No			LS1A04	1400	15350	57							
195	Luminex	None	No			LS1A04	1000	12935	46							
197	Luminex	None	No	LSNC		LS1A04	1000	12935	46							
204	Luminex	EDTA	No	15		LS1A04	1000	13923	39							
206	Luminex	EDTA	No		A*30:01	LS1A04	500	3000	500							
209	CDC + Luminex	EDTA	No			LSAI	17434	138								
218	Luminex	Heat inactivation	No													
227	Luminex	EDTA, Dilution	No													
232	Luminex	None	No	NC15		LS1A04	13232	28								
235	Luminex	DTT	No	54424		LS1PRA	1000	10488	18	LSM12	1000	10302	112			
236	Luminex	None	No	219		LSAI	500	19805	19	LM1	1000	20927				
238	Luminex	EDTA	No		A*30:01	LS1A04	1000/500	14753	35							
245	Luminex	EDTA	No			LSAI	ADBCR>5	20134	346							
262	Luminex	None	No			LSAI	BCM=500	20139	386	LMX		20304	362, 217, 247			
267	Luminex	None	No			LSAI	1500	18314	200	LM1	1000	21648	95, 119, 71			
268	CDC + Flow	None	No			LSAI	967	12283	29							
273	Luminex	EDTA	No	LSNC15		LS1A04	500	14573	85							
277	Luminex	EDTA	No		A*30:01	LS1A04	MFI >1000	12622	40	LSM12	ratio >3	8096	21			
284	Luminex	EDTA	No			LS1A04	500	13807	47	LSM12	2.5	3089	38			
292	Luminex	EDTA	No	54513		LS1A04	500	11863	13	LS1PRA	500	11863	13			
293	Luminex	None	No			LSAI	16513									
294	CDC + Luminex	None	No			LSAI	16513									
297	Luminex	EDTA	No			LS1A04	1500	12234	92							
303	Luminex	EDTA	No	15		LS1A04	1000	12124	39							
309	Luminex	None	No			LSAI	450	20400	119							
311	Luminex	EDTA	No			LS1A04	1500	15210	60							
315	Luminex	EDTA	No			LS1A04	2000	12304	76							
323	Luminex	EDTA	No			LS1A04	1000	13723	31							

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex O = Other

UK NEQAS for H&I - SCHEME 3 - HLA ANTIBODY SPECIFICITY ANALYSIS

CLASS I HLA ANTIBODY SPECIFICITY ANALYSIS OF 3 05/2016

DESPATCHED ON 26TH JANUARY 2016

Techniques used IgG	Sample Treatment IgG	High Background	Neg control serum batch	Allele Specific Antibodies IgG	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative
9	Luminex	None	No		LS1A04	400	10900	46								
11	Luminex	None	No	NC15	LS1A04	500	8581	58	LSM12	2.5	73	2953				
12	Luminex	EDTA	No	15	LS1A04	500	13982	100	LSM12	3	10721	202				
14	Luminex	Heat Inactivation, EDTA	No	15	LS1A04	1500	16509	55								
15	Luminex	EDTA	No	15	LS1A04	1000	17290	21								
19	Luminex	EDTA wash buffer	No		LS1A04	1000	13069	34								
20	CDC + Luminex	EDTA	No	15	LS1A04	500	11741	19								
23	Luminex	None	No	15	LS1A04	1000	12954	16								
24	Luminex	EDTA	No	15	LS1A04	1000	20418	101								
25	Luminex	EDTA	No	A*66:01; B*35:01	LS1A04	1000	14444	293	LS1PRA	1000	13175	64	LSAI		20679	297
26	Luminex	EDTA	No		LS1A04	1000	14636	96	LSAI	1500	20721	404				
28	Luminex	None	No	A*66:01	LS1A04	500	12895	59.64								
34	Luminex	EDTA	No	A*34:01	LS1A04	627	16199	22								
35	CDC + Luminex	None	No	15	LS1A04	1000	13332	110								
38	Luminex	EDTA	No	B*51:03	LS1A04	1217	16403	27	LSAI	573	19735	265				
39	Luminex	EDTA wash buffer	No	14	LS1A04	1500	16527	34								
41	Luminex	None	No		LS1A04	1000	12425	54								
42	Luminex	EDTA	No		LS1A04	1000	11878	36								
45	Luminex	EDTA, Adsorption beads	No	15	LS1A04	1500	17408	39								
48	Luminex	Heat Inactivation	No	21												
51																
54	Luminex	None	No	15	LS1A04	500	15408	313								
58	Luminex	EDTA	No	15	LS1A04	850	9045	93	LSM12	>350	8609	13				
62	Luminex	None	No	08215B	LSM12	>3	8530	16	LSAI	1000	13154	54	LMX			17379
100	Luminex	None	No		LS1A04	1000	16748	63.25								
101	Luminex	None	No		LSAI	458	16899	302								
112	NT	NT	NT	NT	LS1A04	1000	11300	22								
114	CDC + Luminex	EDTA	No	B*51:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
116	CDC + Luminex	None	No	15	LS1A04	1000	11561	28	LSM12		7824	59				
117	Elisa + Luminex	None	No	A*34:01, 66:01, B*51:02	LS1A04	500	13857	24								
118	Luminex	EDTA	No	14	LS1A04	1000	11638	44	LSM12	1.5	10381	35				
120	Luminex	EDTA	No	B*51:02	LS1A04	500	13271	38								
133	Luminex	None	No	B*15:01/02/03/13/16/18, 35:01, 49:01, 50:01, 56:01, 57:01	LSAI	14403	375									
136	CDC + Luminex	None	No	LSNC16	LS1A04	1000	13975	29								
139	Luminex	EDTA	No	15	LS1A04	1000	11938	30	LSM12	6	8396	33				
142	Luminex	EDTA	No	15	LS1A04	1000	8403	37								
143	Luminex	None	No	15	LS1A04	1000	11083	77								
145	Luminex	None	No	NC15	LS1A04	1000	12308	26	LSM12	1.5/1.2	7991	49				
147	CDC + Luminex	None	No		LS1A04	>1500	15096	106	LSM12	>5	8773	46				
149																
157	Luminex	EDTA	No	14	LS1A04	1000	11687	25								
159	CDC + Luminex	None	No		LS1A04	1500	11583	30								
160	Luminex	Adsorption beads	No	OLINS	LS1A04	500	10100	24								
162	Luminex	EDTA	No		LS1A04	1000	13400	39	LSM12	3	7400	19				
163	Luminex	EDTA	No		LS1A04	1500	13882	23								
164	Luminex	None	No		LS1A04	1500	12474	75								
165	Flow + Elisa + Luminex	Dilution	No	15.1	LS1A04	47	15320	322								
169		Dilution	No		LS1A04	1000	13000	35								
181	Luminex	None	No		LS1A04	500	11229	69								
185	Luminex	EDTA	No		LSAI	20058	194	LM1			19005	160				
186	Luminex	None	No		LS1A04	1000	11714	136	LSAI	1000	20261	283				
190	Luminex	EDTA	No		LS1A04	1000	15200	45								
193	Luminex	None	No		LS1A04	1000	12650	28								
194	CDC + Luminex	DTT	No		LS1A04	1000	12650	28								
195	Luminex	None	No		LS1A04	1400	15600	100								
197	Luminex	None	No													
204	Luminex	EDTA	No	LSNC	LS1A04	1000	11638	21								
206	Luminex	EDTA	No		LS1A04	1000	12484	43								
209	CDC + Luminex	EDTA	No		LS1A04	500	3000	500								
218	Luminex	Heat Inactivation	No	B*15:01/02/03/16/18, 35:01, 49:01, 50:01, 56:01, 57:01	LSAI	17530	220									
227	Luminex	EDTA, Dilution	No	A*66:01												
232	Luminex	None	No	NC15	LS1A04	1000	111661	37								
235	Luminex	DTT	Yes	54424	LS1PRA	1000	11050	99	LSM12	1000	9038	361				
236	Luminex	None	Yes	599	LSAI	500	15114	61	LM1	1000	20072					
245	Luminex	EDTA	No	B*51:02	LS1A04	1000/5000	19240	61								
262	Luminex	None	Yes		LSAI	ADBCR-5	20875	783								
267	Luminex	S.Clean	No		LSAI	BCM-500	20445	689	LMX	1000	23090	253, 153, 830				
268	CDC + Luminex	None	No	B*51:02	LSAI	1500	17992	257	LM1	1000	21243	119, 50, 65				
273	Luminex	None	No	LSNC15	LS1A04	870	11883	29								
277	Luminex	EDTA	No		LS1A04	500	12102	19								
284	Luminex	EDTA	No		LS1A04	MFI >1000	11956	22	LSM12	ratio >3	7553	20				
292	Luminex	EDTA	No	54513	LS1A04	500	12512	31	LSM12	2.5	6589	50				
293	Luminex	None	No		LS1A04	500	11420	19	LS1PRA	500	11420	19				
294	CDC + Luminex	None	No		LSAI		16790									
297	Luminex	EDTA	No		LS1A04	1500	13715	38								
303	Luminex	EDTA	No	15	LS1A04	1000	12676	49								
309	Luminex	None	No		LSAI	530	19600	232								
311	Luminex	EDTA	No		LS1A04	1500	14599	32								
315	Luminex	EDTA	No		LS1A04	2000	11868	63								
323	Luminex	EDTA	No		LS1A04	1000	14135	76								

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex O = Other