

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

CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 30/1/2015

DISPATCHED ON 10TH FEBRUARY 2015

HLA specificity for assessment			
DQ4			
Consensus: Absent			
% reports: 2.6%			
Lab no.	spec	tech	MFI
9			
11			
12			
14			
15			
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58			
62			
100			
101			
112			
114			
116			
117			
119			
120			
136			
139	DQ4	L	< 2000
142			
143			
145			
147			
149			
157			
159			
162			
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164			
165			
169			
181			
185			
186			
190			
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204			
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209			
210			
218			
227			
232			
235			
238			
243			
245			
262			
267			
268			
273			
277			
284			
292			
293			
294			
297			
301	DQ4	L	
303			
309			
311			
315			

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

Number	2	< 2000
Total	78	1
		2000-5000
		0
		> 5000
		0

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CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 301/2015

DISPATCHED ON 10TH FEBRUARY 2015

Techniques used IgG	Sample Treatment IgG	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	Luminex kit (lot) IgG	
Lab no.																
9 L	None		LS2A01	500	11068	127										
11 L	None		LS2A01	1000	9718	258	LSM12	2.5	9667	259						
12 L	EDTA	DPB1*14:01, 09:01	LS2A01	500	14273	384										
14 L	None		LS2A01	1500			LSM12	2.18	12590	465						
15 L	EDTA		LS2A01	1000	19788	132.78										
19 L	EDTA		LS2A01	1000	16232	224										
20 C+L	EDTA	DPA1*02:01 DPB1*14:01	LS2A01	500	13042	98										
23 L	None		LS2A01	1000	13995	41										
24 L	EDTA (SA only)		LS2A01	1000	13673	127	LS2PRA	1000	12818	231	LSAII	2000/5/5	17209	122		
25 L	EDTA		LS2A01	1000	12850	371	LSAII	1500	15718	15						
26 L	None		LS2A01	1200	13803	254										
28 L	None	DPB1*14, 09	LS2A01	500	21791	189										
34 L	None		LS2A01	561	9269	179										
35 L	None		LS2A01	1000	10816	151	LSM12	2.1								
38 L	EDTA		LS2A01	1000	15272	180	LSM12	500	14864	327						
39 L	EDTA in buffer		LS2A01	900	17649	185										
41 L	None		LS2A01	2000	7285	219										
42 L	EDTA		LS2A01		11659	164	LSM12	Ratio 3.5	6597	321						
45 L	EDTA		LS2A01	1500	14000	400										
48 L	Heat inactivation															
51 L	EDTA		LS2A01	1000	10171	143	LSM12	4.6	13242	586						
54 L	None		LS2A01	750	12949	299	LSM12	350	15088	450						
58 L	EDTA		LS2A01	1000	13242	199	LSM12	2.5-3.0	9922	123	LMX		15277		LSAII	
62 L	None		LS2A01	1500	14688	127										
100 L	None		LM2	803	16703	70	LSAII	1491	19420	186						
101 L	None		LS2A01	1000	11021	93.6										
112 L	None		LSAII	>500	18204	181/143/814										
114 C+L	None	DQA1*03:01, 03:02, 06:01, 05:03, 05:05	LS2A01	1000	7262	65										
116 C+L	Adsorb out		LS2A01	1000	15474	326	LSM12		14381	220						
117 E+L	None		LS2A01	500	11561	182										
119 L	EDTA		LS2A01	1000	7839	118	LSM12	Ratio > 1.5	10947	67						
120 L	None		LS2A01	500	13253	62										
136 L	None	DQA1*03:01, 03:02, 05:03, 05:05, 06:01	LS2A01	1000	15828	86										
139 L	None		LS2A01	1000	14984	103	LSM12	4	16196	294						
142 L	EDTA		LS2A01	1000	12297	118										
143 L	None	DQA1*03:02, 06:01, 05:05, 05:03	LS2A01	1000	10290	50										
145 L	None		LS2A01	1000	14634	112	LSM12	1.5/1.2	12857	476						
147 L	None		LS2A01	1500	13905	245	LSM12	Ratio > 5	15322	217						
149 L			LSAII		10000	5-2268										
157 L	EDTA		LS2A01	1000	12600	135										

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Techniques used	Sample Treatment	Allele Specific Antibodies	Luminex kit (lot)	Cut-off value	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value	Control bead MFI Positive	Control bead MFI Negative
IgG	IgG	IgG	IgG	IgG			IgG	IgG			IgG	IgG			IgG	IgG		
Lab no.																		
159 L	None		LS2A01	1500	10985	115												
162 L	EDTA		LS2A01	1000	15150	98	LSM12	3	17150	500								
163 L	None		LS2A01	1500	11767	138												
164 L	None		LS2A01	1000	15455	117												
165 F+E+L	None		LS2A01	50	15802	316.6												
		DQA1*03:02, 03:01, 06:01, 05:05, 05:03	LS2A01	1000	14517	186												
169 L	None		LS2A01	2000	12557	92												
181 L	None		LS2A01	2000	12557	92												
185 L	EDTA		LM2		22543	28	LSAII		18936	140								
186 L	None		LS2A01	1500	14401	206												
190 L	EDTA		LS2A01	1000	13864	85												
193 L	None		LS2A01	1000	12030	99												
194 L	DTT																	
195 L	None		LS2A01	1000	1600	173												
197																		
204 L	EDTA		LS2A01	1000	10621	70												
206 L	EDTA (LS2A01 only)		LS2A01	1000	12288	135	LM2	Score > 3	14387	<1200								
209 C+L	None		LS2A01	500	14086	97												
210																		
218 L	Heat inactivation		LSAII															
227 L			LS2A01	1000	18023	87												
232 L	None	DQA1*03, 02, 05, 06	LS2A01		8380	101												
235 L			LS2PRA	1000	11172	139												
238 L	None		LSAII	5	20320	834	LMX											
		DRB1*04:04, 04:01, 04:02, DQA1*03:02, 03:01, 06:01, 05:05, 05:03	LS2A01	1000	7532	79												
243 L	None		LS2A01	1000	11286	192												
245 L	None		LS2A01	1000/500	11286	192												
262 L	None		LSAII	ADBCR > 5	20162	174												
267 L	None		LM2		18103	89/135/111	LSAII	BCM > 700	19810	175/140/1000	LSMUTR	1.5/1.2	10219	98				
268 L	None		LM2	1000	21304	182/65/67	LSAII	1500	19242	137/55/689								
273 L	None		LS2A01	888	11687	279												
277 L	None		LS2A01	500	13295	134												
284 L	EDTA		LS2A01	1000	10179	66	LSM12	Ratio = 3	11854	177								
		DQA1*03:01, 03:02, 05:03, 05:05, 06:01	LS2A01	500	14757.46	56.74	LSM12	2.5	13262.26	452.56								
292 L	None		LS2A01	500	13727	49												
293 L	None		LS2PRA	500	13727	49												
294 L	None		LSAII	ADBCR > 4	16479													
297 L	None		LSAII	ADBCR > 5														
301 L	None																	
303 L	EDTA	DRB1*04:04	LS2A01	1000	10748	101												
309 L	None		LM2		15437	115	LSAII		17361	195								
311 L	EDTA		LS2A01	1500	12816	79												
315 L	None		LS2A01	2000	13179	84												

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CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 302/2015
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Summary
Number of specificities present 13
Number of specificities absent 4
Number of specificities not assessed 6

HLA specificity for assessment			DR103		DR15		DR16		DR17		DR18		DR4		DR11		DR12		DR13			
DR1			Not Assessed		Present 92.3%		Present 87.2%		Present 98.7%		Present 98.7%		Not Assessed 21.8%		Present 98.7%		Present 98.7%		Present 98.7%			
Lab no.	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	
9																						
11																						
12																						
14																						
15																						
19																						
20																						
23																						
24																						
25																						
26																						
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243																						
245																						
252																						
262																						
268																						
273																						
277																						
284																						
292																						
293																						
294																						
297																						
301																						
303																						
309																						
311																						
315																						

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

Number	1	< 2000	27	< 2000	72	< 2000	68	< 2000	77	< 2000	77	< 2000	17	< 2000	77	< 2000	77	< 2000	77	< 2000	77	< 2000
Total	78	0	78	23	78	23	46	23	78	46	23	78	46	23	78	46	23	78	46	23	78	46
		2000-5000		2000-5000		2000-5000		2000-5000		2000-5000		2000-5000		2000-5000		2000-5000		2000-5000		2000-5000		2000-5000
		> 5000		> 5000		> 5000		> 5000		> 5000		> 5000		> 5000		> 5000		> 5000		> 5000		> 5000
		0		0		1		1		1		1		1		1		1		1		1

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CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 302/2015

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HLA specificity for assessment									
Lab no.	DQ2			DQ7			DQ4		
	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI
9	DQ2	L	> 5000						
11	DQ2	L	> 5000						
12	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	> 5000
14	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	2000-5000
15	DQ2	L	> 5000						
19	DQ2	L	> 5000						
20	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	> 5000
23	DQ2	L	> 5000						
24	DQ2	L	> 5000						
25	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	2000-5000
26	DQ2	L	> 5000						
28	DQ2	L	> 5000						
34	DQ2	L	> 5000						
35	DQ2	L	> 5000						
38	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	> 5000
39	DQ2	L	> 5000						
41	DQ2	L	> 5000						
42	DQ2	L	> 5000						
45	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	2000-5000
48	DQ2	L	> 5000	DQ7	L	> 5000			
51	DQ2	L	> 5000						
54	DQ2	L	> 5000						
58	DQ2	L	> 5000						
62	DQ2	L	> 5000	DQ7	L	> 5000			
100	DQ2	L	2000-5000	DQ7	L	2000-5000	DQ4	L	2000-5000
101	DQ2	L	> 5000						
112	DQ2	L	2000-5000						
114	DQ2	L	> 5000						
116	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	2000-5000
117	DQ2	E+L	2000-5000, > 5000						
119	DQ2	L	2000-5000, > 5000						
120	DQ2	L	> 5000	DQ7	L	> 5000			
136	DQ2	L	> 5000						
139	DQ2	L	> 5000	DQ7	L	> 5000			
142	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	2000-5000
143	DQ2	L	> 5000						
145	DQ2	L	> 5000						
147	DQ2	L	> 5000						
149	DQ2	L	2000-5000						
157	DQ2	L	> 5000						
159	DQ2	L	> 5000						
162	DQ2	L	> 5000						
163	DQ2	L	> 5000						
164	DQ2	L	> 5000						
165	DQ2	F+E+L	> 5000	DQ7	L	> 5000	DQ4	F+L	> 5000
169	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	2000-5000
181	DQ2	L	> 5000						
185	DQ2	L	2000-5000						
186	DQ2	L	> 5000						
190	DQ2	L	> 5000						
193	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	2000-5000
194	DQ2	L	> 5000	DQ7	L	> 5000			
195	DQ2	L	> 5000	DQ7	L	> 5000			
197									
204	DQ2	L	> 5000						
206	DQ2	L	> 5000						
209	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	> 5000
210									
218	DQ2	L	2000-5000						
227	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	> 5000
232	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	2000-5000
235	DQ2	L	> 5000						
238	DQ2	L	2000-5000						
243	DQ2	L	2000-5000	DQ7	L	> 5000	DQ4	L	2000-5000
245	DQ2	L	> 5000						
262	DQ2	L	2000-5000						
267	DQ2	L	2000-5000						
268	DQ2	L	> 5000						
273	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	> 5000
277	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	> 5000
284	DQ2	L	> 5000						
292	DQ2	L	> 5000						
293	DQ2	L	> 5000				DQ4	L	> 5000
294	DQ2	L	2000-5000						
297	DQ2	L	2000-5000						
301	DQ2	L	> 5000	DQ7	L	> 5000	DQ4	L	> 5000
303	DQ2	L	> 5000						
309	DQ2	L	> 5000				DQ7	L	> 5000
311	DQ2	L	> 5000						
315	DQ2	L	> 5000						

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

Number	78	< 2000	25	< 2000	20	< 2000
Total	78	0	78	0	78	0
		2000-5000		2000-5000		2000-5000
	11		1		10	
	> 5000		> 5000		> 5000	
	63		23		10	

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Techniques used IgG	Sample Treatment IgG	Allele Specific Antibodies IgG	Luminex kit (lot) IgG	Cut-off value IgG	Control bead	Control bead	Luminex kit (lot) IgG	Cut-off value IgG	Control bead	Control bead	Luminex kit (lot) IgG	Cut-off value IgG	Control bead	Control bead	Luminex kit (lot) IgG
					MFI Positive	MFI Negative			MFI Positive	MFI Negative			MFI Positive	MFI Negative	
9 L		DQA1*05:03, 05:05, 06:01, 04:01	LS2A01	1000	12644	122									
11 L	None	DQA1*04, 05, 06	LS2A01	1000	9364	68	LSM12	2.5	10336	43					
12 L	EDTA	DQB1*04:02, 06:03, 06:09 DRB1*04:02 DQB1*03:01, 04:02	LS2A01	500	17024	140									
14 L	None	DQA1*05:05, 06:01, 05:03, 04:01	LS2A01	1500	8243	31	LSM12	3	13050	28					
15 L	EDTA	DQA4, 5, 6	LS2A01	1000	18073	31									
19 L	EDTA	DQA1*04:01, 05:03, 05:05, 06:01 DRB1*04:02 DQB1*04:02	LS2A01	1000	16821	51									
20 C+L	EDTA	DQA1*04:01, 05:01, 05:03, 05:05, 06:01	LS2A01	500	14146	106									
23 L	None	DQA1*04:01, 05:03, 05:05 DQB1*06:09 DRB1*14:04 (Lifecodes)	LS2A01	1000	16956	47									
24 L	EDTA (SA only)	DQA1*04:01, 05:01, 05:03, 05:05, 06:01 DQB1*03:01, 04:02, 06:03, 06:09 DQA1*04:01, 05:01, 05:03, 05:05, 06:01	LS2A01	1000	14359	66	LSAII	2000/5/5	15982	147	LS2PRA	1000	12970	49	
25 L	EDTA	DQA1*04:01, 05:01, 05:03, 05:05, 06:01	LS2A01	1000	15477	274	LSAII	1500	17327	38					
26 L	None		LS2A01	1200	13465	74	LSM12	4.4	13313	83					
28 L	None	DQA4, 5, 6 DQB1*06:09, 06:03, 04:02 DQA1*05:03, 05:05, 06:01, 04:01	LS2A01	500	15839	132									
34 L	None	DQB1*03:01, 04:02 DQA1*05:03, 05:05, 06:01, 04:01	LS2A01	583	11174	77									
35 L	None	DQA1*05:03, 05:05, 06:01, 04:01 DRB1*04:02	LS2A01	1000	10874	78	LSM12	2.1							
38 L	EDTA	DQA1*04, 05, 06 DQB1*06:03, 06:09	LS2A01	2000	11597	79	LSM12	500	12619	92					
39 L	EDTA in buffer	DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	1300	14184	96									
41 L	None	DQA1*04:01, 05:03, 05:05, 06:01 DRB1*04:02 DQB1*06:03, 06:09 DQA1*05:03, 05:05, 06:01, 04:01	LS2A01	2000	7562	75									
42 L	EDTA	DQA1*04:02	LS2A01	500	13581	59	LSM12	Ratio 3.5	14456	48					
45 L	EDTA	DQA1*04:02	LS2A01	1500	13000	100									
48 L	Heat inactivation	DQA1*04:01	LS2A01	2000	13939	179									
51 L	EDTA	DQA1*04, 05, 06	LS2A01	2000	12945	46	LSM12	350	14988	55					
54 L	None	DQA1*04, 05, 06	LS2A01	1000	11236	75	LSM12	2.5-3.0	7959	34	LMX		16483		LSAII
58 L	EDTA	DQA1*04, 05, 06	LS2A01	1500	16649	51									
62 L	None	DQA1*04:02 DRB1*04:02 DQA1*04:01, 05:01, 06:01 DQA1*05:03, 05:5, 04:01, 06:01	LM2	490	17497	86	LSAII	622	18361	209					
101 L	None	DRB1*14:01	LS2A01	1000	11996	47									
112 L	None	DQA1*04:01, 05:01, 06:01 DQA1*05:01, 05:03, 05:05, 06:01, 04:01	LSAII	>500	18351	323/304/912									
114 C+L	None		LS2A01	1000	8478	25									
116		DQB1*06:03, 06:09 DRB1*04:02 DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	1000	11816	37	LSM12		14982	42					
117 E+L	None	DQA1*05:03, 05:05, 06:01, 04:01	LS2A01	500	14046	39									
119 L	EDTA	DRB1*04:02 DQB1*06:03, 06:09	LS2A01	1000	9035	38	LSM12	Ratio > 1.5	11137	28					
120 L	None	DQA1*04:01 DQB1*06:09	LS2A01	500	15341	38									
136 L	None	DQA1*01:02, 04:01, 05:01, 05:03, 05:05, 06:01	LS2A01	1000	17465	66									
139 L	None	DQB1*06:03, 06:09	LS2A01	1000	15540	74	LSM12	4	16696	64					
142 L	EDTA		LS2A01	1000	13938	56									
143 L	None	DQA1*05:03, 05:05, 06:01, 05:01, 04:01 DRB1*04:02 DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	1000	10290	50									
145 L	None	DRB1*20:01 DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	1000	15980	95	LSM12	1.5/1.2	14748	67					
147 L	None		LS2A01	1500			LSM12	Ratio > 5							
149 L		DQA1*04:01, 05:01, 06:01 DRB1*13:03, 13:01, 14:01, 14:54, 14:02, 11:04, 11:01, 12:01, 12:02, 09:02, 09:01, 15:01, 15:02, 15:03, 16:01, 16:02, 04:02	LSAII	10000	5-2268										
157 L	EDTA	DQA1*05:05, 05:03, 06:01, 04:01	LS2A01	1000	16600	27									

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

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Techniques used IgG	Sample Treatment IgG	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
Lab no.										
159 L	None	DQA1*05:03, 05:05, 06:01	LS2A01	1500	12847	55				
162 L	EDTA	DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	1000	15250	33	LSM12	3	15100	26
163 L	None	DQA1*04:01, 05:01, 05:03, 05:05, 06:01	LS2A01	1500	11086	40				
164 C+L	None	DQA1*05:01, 05:03, 05:05, 06:01, 04:01	LS2A01	1000	17063	82				
165 F+E+L	None		LS2A01	243	14269	59				
169 L	None	DQA1*05:03, 06:01, 05:05, 05:01, 04:01	LS2A01	1000	14386	69				
181 L	None	DQB1*06:03, 06:09	LS2A01	2000	13771	30				
185 L	EDTA	DRB1*04:02, 09:02	LM2		21203	99	LSAII		18906	167
186 L	None	DQA1*06:01, 05:01, 04:01	LS2A01	1500	12838	43				
190 L	EDTA	DQA1*04, 05, 06	LS2A01		15798	49				
193 L	None	DQA1*04, 05, 06	LS2A01	1000	14379	22				
194 C+L	DTT									
195 L	None	DQA1*04:01	LS2A01	1000	15000	75				
197										
204 L	EDTA	DQA1*04, 05, 06	LS2A01	1000	11571	62				
206 L	EDTA (LS2A01 only)	DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	1000	14329	50	LM2	Score > 3	14406	<425
209 C+L	None		LS2A01	500	13818	97				
210										
218 L	Heat inactivation	DQA1*05:01, 04:01, 06:01	LSAII							
227 L		DQA1*05:01, 04:01, 05:03, 05:05, 06:01	LS2A01	1000	13487	69				
232 L	None	DQA1*04, 05, 06, 02, 03	LS2A01		8145	54				
235 L			LS2PRA	1000	12022	42				
238 L		DQA1*04, 05, 06	LSAII	5	18324	909	LMX			
243 L	None	DQB1*06:02	LS2A01	1000	5201	20				
245 L	None	DQA1*05:03, 06:01, 05:05, 05:01, 04:01	LS2A01	1000/500	14897	66				
262 L	None	DRB1*04:02	LSAII	ADBCR > 5	19599	206				
267 L	None	DQA1*04:01, 05:01, 06:01	LM2		19941	136/406/155	LSAII	BCM > 700	19559	198/151/982
268 L	None	DQA1*04, 05, 06	LM2	1000	20920	132/379/154	LSAII	1500	19208	132/108/772
273 L	None	DQB1*04:02	LS2A01	2006	13114	99				
277 L	None	DQA1*05:03, 05:05, 06:01, 04:01	LS2A01	500	13979	61				
284 L	EDTA	DRB1*04:02	LS2A01	1000	11875	42	LSM12	Ratio = 3	13312	48
292 L	None	DQA1*01:03, 05:06, 05:05, 06:01, 04:01	LS2A01	500	14540.18	32.25	LSM12	2.5	18965.19	50.44
293 L	None	DQA1*01:03, 05:06, 05:05, 06:01, 04:01	LS2PRA	500	12752	25				
294 L	None	DQA1*04:01, 05:01, 05:03, 05:05, 06:01	LSAII	ADBCR > 4	16809					
297 L	None	DQA1*04:01, 05:01, 06:01	LSAII	ADBCR > 5	19542	866				
301 L	None									
303 L	EDTA	DQA1*05:03, 05:05, 06:01, 04:01	LS2A01	1000	11475	53				
309 L	None	DQA1*05:01, 04:01, 06:01	LM2		16472	179	LSAII		17326	303
311 L	EDTA	DQA1*04, 05, 06	LS2A01	1500	14678	56				
315 L	None	DQA1*05:01, 05:03, 05:05, 06:01, 04:01	LS2A01	2000	11812	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 II HLA ANTIBODY SPECIFICITY ANALYSIS OF 3032015
DISPATCHED ON 10TH FEBRUARY 2015

Technique used	Sample Treatment	Altae Specific Antibodies	Luminex kit (R0)	Cut-off value	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (R0) IgG	Cut-off value MFI Positive	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (R0) IgG	Cut-off value MFI Positive	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (R0) IgG
9 L	None	DPB1*20:4, 1, 6, 9, 10, 11, 14, 15, 17, 19 DPB1*03:01, 05:01, 06:01, 08:01, 09:01, 10:01, 11:01, 13:01, 14:01, 17:01, 19:01, 20:01 DPB1*var:1, 13:01 DPB1*03:01, 20:01, 06:01, 08:01, 09:01, 09:01, 11:01, 14:01, 19:01, 13:01, 17:01, 10:01	LS2A01	500	12078	211									
11 L	None	DPB1*20:4, 1, 6, 9, 10, 11, 14, 15, 17, 19 DPB1*03:01, 05:01, 06:01, 08:01, 09:01, 10:01, 11:01, 13:01, 14:01, 17:01, 19:01, 20:01 DPB1*var:1, 13:01 DPB1*03:01, 20:01, 06:01, 08:01, 09:01, 09:01, 11:01, 14:01, 19:01, 13:01, 17:01, 10:01	LS2A01	1000	9352	327	LSM12	2.5	11353	933					
12 L	EDTA	DPB1*02:01 DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DQB1*05:01 DQB1*11, 10, 11, 13, 14, 17, 19, 20, 3, 5, 6, 9	LS2A01	500	17922	440									
14 L	None	DPB1*20:4, 1, 6, 9, 10, 11, 13, 14, 17, 19, 20 DQB1*05:01 DQB1*11, 10, 11, 13, 14, 17, 19, 20, 3, 5, 6, 9	LS2A01	1500	6916	167	LSM12	2.18	15324	509					
15 L	EDTA	DPB1*02:01 DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20, 3, 5, 6, 9	LS2A01	1000	16801	61									
19 L	EDTA	DPB1*13:03 DPB1*03:01, 20:01, 06:01, 09:01, 11:01, 05:01, 20:01, 14:01, 19:01, 17:01, 13:01, 10:01	LS2A01	500	16121	122									
20 ChL	EDTA	DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DQB1*05:01	LSAII	2000/9/5	15971	141	LS2PRA	1000	14347	1307	LS2A01	1000	16034	287	
23 L	None	DPB1*01:03, 05, 06, 09, 10, 11, 13, 14, 17, 19, 20	LSAII	1500	18868	34	LS2A01	1000	15420	321					
24 L	EDTA (SA only)	DPB1*01:03, 05, 06, 09, 10, 11, 13, 14, 17, 19, 20	LSAII	1200	13777	156									
25 L	EDTA	DRB1*13:03	LSAII	1500	18868	34									
26 L	None	DRB1*13:03 DRB1*1, 5, 3, 6, 9, 10, 11, 13, 14, 17, 19, 20 DRB1*1, 2 DRB1*13:03 DRB1*05:01	LSAII	1500	18868	34									
28 L	None	DRB1*1, 5, 3, 6, 9, 10, 11, 13, 14, 17, 19, 20 DRB1*1, 2 DRB1*13:03 DRB1*05:01	LS2A01	500	20073	694									
34 L	None	DPB1*20:4, 6, 9, 1, 13, 14, 11, 13, 17, 19 DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DPB1*01:03, 05:01, 06:01, 08:01, 09:01, 10:01, 11:01, 13:01, 14:01, 17:01, 19:01, 20:01	LS2A01	1422	11171	249									
35 L	None	DPB1*20:4, 6, 9, 1, 13, 14, 11, 13, 17, 19 DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DPB1*01:03, 05:01, 06:01, 08:01, 09:01, 10:01, 11:01, 13:01, 14:01, 17:01, 19:01, 20:01	LS2A01	1000	11216	202	LSM12	2.1							
38 L	EDTA	DPB1*13:03 DPB1*05:01 DPB1*01:03, 05:01, 06:01, 08:01, 09:01, 10:01, 11:01, 13:01, 14:01, 17:01, 19:01, 20:01	LS2A01	2500	12486	121	LSM12	500	12239	84					
39 L	EDTA in buffer	DPB1*20:4, 6, 9, 1, 13, 14, 11, 13, 17, 19 DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DPB1*01:03, 05:01, 06:01, 08:01, 09:01, 10:01, 11:01, 13:01, 14:01, 17:01, 19:01, 20:01	LS2A01	1200	8556	62									
41 L	None	DPB1*20:4, 6, 9, 1, 13, 14, 11, 13, 17, 19 DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 This scenario would subtype patient DPB1*01:01, 03:01, 05:01, 06:01, 08:01, 09:01, 10:01, 11:01, 13:01, 14:01, 17:01, 19:01, 20:01	LS2A01	2000	13235	491									
42 L	EDTA	DPB1*01:01, 03:01, 05:01, 06:01, 08:01, 09:01, 10:01, 11:01, 13:01, 14:01, 17:01, 19:01, 20:01	LS2A01	500	13560	180	LSM12	Ratio 3.5	14870	238					
45 L	EDTA	DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DQB1*05:01	LS2A01	1500	14000	150									
48 L	Heat inactivation	DPB1*1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DQB1*05:01	LSAII	1500	18868	34									
51 L	EDTA	DPB1*01:03, 05, 06, 09, 10, 11, 13, 14, 17, 19, 20 DQB1*05:01	LS2A01	1000	15967	36	LSM12	4.6	13988	130					
54 L	None	DPB1*01:03, 05, 06, 09, 10, 11, 13, 14, 17, 19, 20 DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	750	13387	283	LSM12	350	16296	1615					
58 L	EDTA	DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	1000	13363	248	LSM12	2.5-3.0	11061	107	LMX		17929		LSAII
62 L	None	DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	1500	17824	214									
100 L	None	DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01 DQB1*05:01	LM2	988	18901	98	LSAII	802	18667	245					
101 L	None	DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	1000	13013	179									
112 L	None	DPB1*01:03, 02:01, 02:02, 03:01, 04:01 DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01 DQB1*05:01	LSAII	>500	19051	267	269	947							
114 ChL	None	DPB1*20:4, 6, 9, 1, 6, 14, 11, 17, 19, 13 DQB1*05:01	LS2A01	1000	8408	194									
116 ChL	Adsorb out	DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19 RESERVATION AS DR13 = self sample self allele (#known) 09:02 DPB1*20:4, 6, 9, 14, 06:01, 05, 19, 11, 17, 13 DQB1*05:01	LS2A01	500	14970	196									
117 E+L	None	DPB1*20:4, 6, 9, 11, 1, 14, 19, 13, 17, 10 DQB1*05:01, 06:01	LS2A01	1000	14502	228	Ratio > 1.5	12770	95						
119 L	EDTA	DPB1*20:4, 6, 9, 11, 14, 1, 19, 13, 17, 10 DQB1*05:01 DQB1*05:01	LS2A01	500	16827	241									
120 L	None	DPB1*1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DQB1*05:01 DQB1*05:01	LS2A01	1000	18857	281									
136 L	None	DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01 DQB1*05:01	LS2A01	1000	16507	223	LSM12	4	17180	334					
139 L	EDTA	DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01 DQB1*05:01	LS2A01	1000	14252	94									
142 L	EDTA	DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01, 20:01 DQB1*05:01	LS2A01	1000	11818	104									
143 L	None	DPB1*01:01, 03:01, 05:01, 06:01, 08:01, 09:01, 10:01, 11:01, 13:01, 14:01, 17:01, 19:01, 20:01	LSAII	10000	5-2268										
145 L	None	DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01, 20:01	LSAII	10000	5-2268										
147 L	None	DPB1*3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	1500	14514	461.7	LSM12	Ratio > 5	17122	464					
149 L	None	DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01 DRB1*04:01, 04:01, 04:02, 04:05, 04:03 DQB1*05:01	LSAII	10000	5-2268										
157 L	EDTA	DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01, 20:01	LS2A01	1000	14700	33									

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

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

CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 3032015
DISPATCHED ON 10TH FEBRUARY 2015

Techniques used IgG	Sample Treatment IgG	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
Lab no.														
159 L	None	DOB1*05:01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	1500	16198	213								
162 L	EDTA	DPB1*01:03:05:06:08:10, 11, 13, 14, 17, 19, 20	LS2A01	1000	15300	220	LSM12	3	17000	500				
163 L	None	DPB1*01:03:05:06:08:10, 11, 13, 14, 17, 19, 20 DQA1*05:01 DPB1*13:01, 20, 5, 1, 9, 6, 19, 14, 11, 13, 17, 10	LS2A01	1500	13433	193								
164 C+L	None	DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	1000	13788	309								
165 F+E+L	None	DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DQA1*05:01	LS2A01	66	14590	220								
169 L	None	DPB1*03:01:02:02:02:01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	1000	16429	435								
181 L	None	DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DQA1*05:01	LS2A01	2000	12921	140								
185 L	EDTA	DPB1* Epitope 84DEAV DPB1*03:01:20:01, 11:01, 09:01, 05:01, 06:01, 14:01, 01:01, 19:01, 13:01, 17:01, 10:01	LM2		22128	115	LSAII		20536	208				
186 L	None	DPB1*01:03:05:06:08:10, 11, 13, 14, 17, 19, 20	LS2A01	1500	12137	145								
190 L	EDTA	DPB1*01:01:03:01, 05:01, 06:01, 09:01, 10:01, 11:01, 13:01, 14:01, 17:01, 19:01, 20:01	LS2A01	1000	16040	228								
193 L	None	DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	1000	17000	420								
194 L	DTT	DOB1*05:01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	1000	12599	242								
204 L	EDTA	DOB1*05:01 DPB1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	1000	14073	152	LM2	Score > 3	16760	<220				
209 C+L 210	None	DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	500	14689	199								
218 L	Heat inactivation	DPB1*01:01, 05:01, 03:01, 14:01, 17:01, 19:01, 13:01 DPB1*03:01, 20:01, 06:01, 09:01, 05:01, 14:01, 01:01, 19:01, 11:01, 13:01, 17:01, 10:01	LSAII											
227 L		DQA1*05:04:01:02:03 DP13, 3, 1, 5, 6, 11, 9, 10, 20, 19, 14, 17 DPB1*02:03:01	LS2A01 LS2PRA	1000	8478 12954	290 349								
232 L	None	DPB1*01:03:05:13:14:17, 19 (Epitope 84DEAV) DOB1*05:01 DQA1*05:01	LSAII	5	19540	828	LMX							
235 L	None	DP3, 9, 20, 1, 6, 5, 11, 14, 19, 17, 13, 10 DPB1*03:01, 02:01, 02:02 DRB1*13:03 DOB1*08:01 DQA1*05	LS2A01	1000	9120	124								
243 L	None	DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DPB1*01:03:05:13:14:17, 19 (Epitope 84DEAV) DPB1*01:03:01, 05:01, 13:01, 14:01, 17:01, 19:01	LS2A01	1000/500	16324	492								
245 L	None	DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DPB1*01:03:05:13:14:17, 19 (Epitope 84DEAV) DPB1*01:03:01, 05:01, 13:01, 14:01, 17:01, 19:01	LSAII	ADBCR > 5	20150	234								
262 L	None	DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01 DQA1*05:01	LM2		21443	167252/341	LSAII	BCM > 700	19499	348/277/1132	LSMUTR	1.5/1.2	13784	382
267 L	None	DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01 DQA1*05:01	LM2	1000	20563	70/143/121	LSAII	1500	18191	182/67/782				
268 L	None	DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20 DQA1*05:01	LS2A01	2477	12173	351								
273 L	None	DPB1*03:01, 20:01, 06:01, 11:01, 01:01, 05:01, 09:01, 14:01, 19:01, 13:01, 17:01, 10:01	LS2A01	500	15356	146								
277 L	None	DOB1*05:01 DPB1*10:01, 13:01, 17:01, 01:01, 03:01, 05:01, 06:01, 09:01, 11:01, 14:01, 19:01, 20:01	LS2A01	1000	13765	201	LSM12	Ratio = 3	15106	307				
284 L	EDTA	DOB1*05:01 DQA1*05:01 DPB1*01:01, 03:01, 05:01, 06:01, 11:01, 13:01, 19:01	LS2A01	500	16649.04	237.52	LSM12	2.5	14553.4	1059.29				
292 L	Adsorb out	DPB1*01:01, 03:01, 05:01, 06:01, 11:01, 13:01, 19:01	LS2A01	500	15749	85	LS2PRA							
293 L	None	DP1, 3, 5, 17, 11 DPB1*01:03:05:13:14:17, 19	LSAII	ADBCR > 4	16474									
294 L	None	DRB1*16:02 DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01	LSAII	ADBCR > 5	17430	840								
297 L	None	DP20, 3, 9, 6, 17, 1, 14, 19, 5, 11, 13, 10 DPA1*02:01	LS2A01	1000	10135	330								
301 L	None	DPB1*05:01, 01:01, 13:01, 03:01	LM2		16803	152	LSAII		17284	275				
303 L	EDTA	DP3, 20, 9, 6, 5, 11, 1, 14, 19, 13, 17, 10 DQA1*05:01	LS2A01	1500	15701	208								
309 L	None	DPB1*03:05:06:19 DPA1*02:01, 03:01	LS2A01	2000	11015	56								

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

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

CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 304/2015
DISPATCHED ON 10TH FEBRUARY 2015

Summary
Number of specificities present 20
Number of specificities absent 2
Number of specificities not assessed 4

HLA specificity for assessment			DR103			DR15			DR16			DR17			DR18			DR4			DR11			DR12			DR13			
			Present 97.4%			Present 98.7%			Present 98.7%			Absent 1.3%			Not Assessed 67.9%			Present 98.7%			Present 100.0%			Present 100.0%			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	spec	tech	MFI
9	DR1	L	> 5000	DR103	L	> 5000	DR15	L	> 5000	DR16	L	> 5000			DR18	L	< 2000	DR4	L	> 5000	DR11	L	> 5000	DR12	L	> 5000	DR13	L	> 5000	

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

Number	77	< 2000	76	< 2000	77	< 2000	77	< 2000	1	< 2000	53	< 2000	77	< 2000	78	< 2000	78	< 2000	78	< 2000	78	< 2000	78	< 2000	78	< 2000	78	< 2000
Total	78	0	78	0	78	0	78	0	78	0	78	0	78	0	78	0	78	0	78	0	78	0	78	0	78	0	78	0

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

CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 3042015																		
DISPATCHED ON 10th FEBRUARY 2015																		
Lab No	Sample Type	Assay Method	Name of Specific Antibodies	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date	Lot/Exp. Date
1	New	IGG	DRB1*03:01	12176	143													
1	New	IGG	DRB1*03:01	12176	143													
11	New	IGG	DRB1*03:01	11973	361													
12	EDIA	IGG	DRB1*03:01	18552	290													
14	New	IGG	DRB1*03:01	14010	102													
15	EDIA	IGG	DRB1*03:01	18918	63													
19	EDIA	IGG	DRB1*03:01	18046	169													
20	CHL	EDIA	DRB1*03:01	14114	100													
23	New	IGG	DRB1*03:01	17056	79													
24	EDIA (SA only)	LSA	DRB1*03:01	16378	170													
25	EDIA	LSA	DRB1*03:01	14353	232													
26	New	LSA	DRB1*03:01	15888	194													
28	New	IGG	DRB1*03:01	16037	145													
34	New	IGG	DRB1*03:01	11786	190													
35	New	IGG	DRB1*03:01	11188	139													
38	New	IGG	DRB1*03:01	12966	276													
39	EDIA in buffer	IGG	DRB1*03:01	14232	178													
41	New	IGG	DRB1*03:01	12158	246													
42	EDIA	IGG	DRB1*03:01	12158	167													
45	EDIA	IGG	DRB1*03:01	13500	120													
48	Heat inactivation	IGG	DRB1*03:01	12460	196													
51	EDIA	IGG	DRB1*03:01	15264	125													
54	New	IGG	DRB1*03:01	16176	674													
58	EDIA	IGG	DRB1*03:01	14388	108													
62	New	IGG	DRB1*03:01	17728	65													
100	New	LSA	DRB1*03:01	19460	235													
101	New	IGG	DRB1*03:01	11707	75													
112	New	LSA	DRB1*03:01	378389	1343													
114	CHL	New	DRB1*03:01	9810	85													
116	CHL	New	DRB1*03:01	10370	31													
117	EDL	New	DRB1*03:01	13859	59													
119	EDIA	IGG	DRB1*03:01	13387	86													
120	New	IGG	DRB1*03:01	15806	61													
128	New	IGG	DRB1*03:01	17862	120													
138	New	IGG	DRB1*03:01	15275	73													
142	EDIA	IGG	DRB1*03:01	14388	76													
143	New	IGG	DRB1*03:01	10716	163													
145	New	IGG	DRB1*03:01	10144	107													
147	New	IGG	DRB1*03:01	15230	250													
148	New	LSA	DRB1*03:01	10000	5-2566													
157	EDIA	IGG	DRB1*03:01	16400	32													

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

CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 3042015
DISPATCHED ON 10TH FEBRUARY 2015

Technique used	Sample Treatment	Allete Specific Antibodies	Luminex kit (lot)	Cut-off value	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value	Control bead MFI Positive	Control bead MFI Negative		
Lab No.		DRB3*02:02 DPB1*04:02 DP1*2,3,6,9,10,14,17, 18,20,28 DRB3*02:02 DOB*105:01 DPB1*02,03,04,02,06,09, 10,14,17,18,20,28 DRB3*02:02 DPB1*01,02,03,04,06,09, 10,14,17,18,20,28 DRB3*02:02 DPB1*16,3,28,6,20,1 DP2,3,4,6,9,10,14,17, 18,20,28 DOA1*03:03,03:01,01:03, 03:02,02:01,05:05,06:01, 01:02,06:03,01:01 DPB1*3,28,20,6,1 DPB1*04:01,01:05,02:01, 01:03 DP1*2,3,4,6,9,10,14,17, 18,20,28 DRB3*02:02 DOA1*01,04,06 DPB1*Epitope S5DE DPB1*18:01,02:01,04:02, 06:01,03:01,20:01,02:01, 09:01,03:01,14:01,10:01, 17:01 DPB1*01,02,03,04,02,06, 09,10,14,17,18,20,28 LRA*02:01 DPB1*01,01,02:01,03:01, 04:02,06:01,09:01,10:01, 14:01,17:01,18:01,20:01, 28:01 DP1*2,3,4,6,9,10,14,17, 18,20,28 DRB3*02:02 DP1*2,3,6,9,10,14,17, 18,20,28 DPB1*04:02 DRB3*02:02 DPB1*1,2,3,04,02,6,9,10, 14,17,18,20,28 DP1*2,3,4,6,9,10,14, 17,18,20,28 DOA1*02:02,04:01,03:01,03:01, DPB1*18:01,28:01,06:01, 02:01,04:02,09:01,03:01, 14:01,10:01,17:01,01:01, 20:01 DOA1*03,01,05,06,02,04 DP2,28,18,6,20,9,17,10, 14,2,4 DPB1*01,04,02,01,03 LSPRA DRB3*02:02 DOA1*06,04,01 DPB1*Epitope S5DE,02, 03,05:02,14,17,18,28 DOA1*03:01,02:01,03:03, 01:02,01:03,03:02,06:01, 05:05,06:03 DP20,2,6,9,28,18,3,14, 9,17,10,4 DPB1*04:01,01:05,02:01 LSDA01 DPB1*01,02,03,04,02,06, 09,10,14,17,18,20,28 DPB1*02,03,04,02,14,17, 18,20,Epitope S5DE DOA1*03:01,04:01,06:01 DPB1*02:01,03:01,04:02, 14:01,17:01,18:01,28:01 DOA1*06 DPB1*02:01,03:01,04:02, 14:01,17:01,18:01,28:01 LSPRA DPB1*04:02,01:01 DPB1*01:03 DRB3*02:02 DPB1*18:01,28:01,02:01, 06:01,04:02,03:01,09:01, 20:01,10:01,14:01,17:01 DPB1*01:01 DPB1*01:01,02:01,03:01, 04:02,06:01,09:01,10:01, 14:01,17:01,18:01,20:01, 28:01 DOA1*01,01,01:02,01:03, 03:01,03:01,03:02,03:03, 05:03,05:06,06:01 DPB1*01:01,02:01,03:01, 04:02,06:01,18:01,20:01, 28:01 LSDA01 LSPRA DPB1*02,03,04,14,17,18, 28 DRB3*02:02 DOA1*04:01,06:01,03:01 DP2,3,1, DPB1*04:02,14:01,17:01, 18:01,28:01 LSDA01 ADBCR > 5 17422 751 DPB1*04:02 DP2,4,9,18,28,3,20,6, 14,10,17 DOA1*04:01,01 DPB1*04:02,17,18,28,03, 02,18 DRB3*02:02 DP1*2,3,6,9,10,14,17, 18,20,28 DPB1*04:02 DP2,3,4,6,9,14,17,10, 18,20,28 LSDA01 LSDA01														
159 L	None		LSDA01	1500	15420	77										
162 L	EDTA		LSDA01	1000	13800	47	LSM12	3	18600	71						
163 L	None		LSDA01	1500	12784	95										
164 CHL	None		LSDA01	1000	11389	100										
165 F+E+L	None		LSDA01	138	15250	110										
169 L	None		LSDA01	1000	15744	140										
181 L	None															
185 L	EDTA		LM2		21605	52	LSAI		20624	271						
186 L	None		LSDA01	1500	11335	127										
190 L	EDTA		LSDA01	1000	15988	96										
193 L	None		LSDA01	1000	14710	39										
194 L	DTT															
195 L	None		LSDA01	1000	12600	110										
197																
204 L	EDTA		LSDA01	1000	5133	62										
206 L	EDTA (LSDA01 only)		LSDA01	1000	13213	78	LM2	Score > 3	19589	700						
209 L	None		LSDA01	500	14790	74										
210																
218 L	Heat inactivation		LSAI													
227 L			LSDA01	1000	17875	105										
232 L	None		LSDA01		8913	105										
235 L			LSPRA	1000	13884	58										
238 L	None		LSAI	5	20177	1087	LMX									
243 L	None		LSDA01	1000	4553	27										
245 L	None		LSDA01	1000/500	5228	46										
262 L	None		LSAI	ADBCR > 5	19874	261										
267 L	None		LM2	21518	5982477/3373	LSAI	BCM > 700	1935	232223/1246	LSMUTR	1.5/1.2	13710	32			
268 L	None		LM2	1000	20803	209759/800	LSAI	1500	18939	166/115/1094						
273 L	None		LSDA01	1358	11860	185										
277 L	None		LSDA01	500	13802	63										
284 L	EDTA		LSDA01	1000	13364	85	LSM12	Ratio = 3	14365	101						
292 L	None		LSDA01	500	15046/88	67.5	LSM12	2.5	15215/43	64/07						
293 L	None		LSPRA	500	13820	31										
294 L	None		LSAI	ADBCR > 4	16667											
297 L	None		LSAI	ADBCR > 5	17422	751										
301 L	None															
303 L	EDTA		LSDA01	1000	16487	135										
309 L	None		LM2		16236	491	LSAI		16184	201						
311 L	EDTA		LSDA01	1500	14747	79										
315 L	None		LSDA01	2000	11015	56										

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

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

CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 30/5/2015
DISPATCHED ON 10TH FEBRUARY 2015

Lab no.	HLA specificity for assessment			DQ4		
	Consensus % reported	Not Assessed 17.9%	DQ9	Spec	tech	MFI
9						
11						
12		DQ9	L			2000-5000
14						
15						
19						
20						
23						
24						
25						
26						
28						
34						
35						
38		DQ9	L			< 2000
39						
41						
42						
45						
48		DQ9	L			2000-5000
51						
54						
58						
62						
100						
101						
112						
114						
116		DQ9	L			< 2000
117						
119						
120						
136						
139						
142		DQ9	L			< 2000
143						
145						
147						
149						
157						
159						
162						
163						
164						
165						
169						
181		DQ9	L			< 2000
185						
186						
190						
193						
194		DQ9	L			2000-5000
195						
197						
204						
206						
209		DQ9	L			< 2000
210						
218						
227		DQ9	L			2000-5000
232		DQ9	L			< 2000
235						
238						
243		DQ9	L			< 2000
245						
262						
267						
268						
273		DQ9	L			< 2000
277		DQ9	L			< 2000
284						
292						
293						
294						
297						
301		DQ9	L			
303						
309					DQ7	L > 5000
311						
315						

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

Number	14	< 2000	1	< 2000
Total	78	9	78	0
		2000-5000		2000-5000
		4		0
		> 5000		> 5000
		0		0

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

CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 305/2015

DISPATCHED ON 10TH FEBRUARY 2015

Techniques used	Sample Treatment	Allele Specific Antibodies	Luminex kit (lot)	Cut-off value	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)
IgG	IgG	IgG	IgG	IgG			IgG	IgG			IgG	IgG			IgG
9 L	Dilution		LS2A01	1000	15610	126									
11 L	None	DRB1*04:02 DRB5*01:01	LS2A01	1000	8593	54	LSM12	2.5	11573	561					
12 L	EDTA	DOA1*03:01, 03:02	LS2A01	500	17358	135									
14 L	None	DRB1*14:01 DRB1*14:02, DRB1*14:03 DRB3*01:01 DRB5*01:01	LS2A01	1500	7795	33	LSM12	2.18	13537	103					
15 L	EDTA	DOA1*03:02, 01:03	LS2A01	1000	18134	49									
19 L	EDTA	DOB1*06:03 DRB1*04:02	LS2A01	1000	17267	23									
20 C+L	EDTA	DOB1*06:03, 06:09, 06:01 DOA1*01:03, 03:02	LS2A01	500	13418	41									
23 L	None	DRB3*01:01 DOA1*03:02 DOB1*06:03	LS2A01	1000	16813	26									
24 L	EDTA (SA only)	DRB1*04:02, 14:04 (Lifecodes) DOB1*06:03	LSAII	2000/5/5	16448	108	LS2PRA	1000	12895	60	LS2A01	1000	15854	38	
25 L	EDTA	DOA1*03:02	LSAII	1500	18188	13	LS2A01	1000	15008	279					
26 L	None	UHLH1*04:02 DRB3*01:01 DRB5*01:01	LS2A01	1200	13305	71	LSM12	4.4	14655	793					
28 L	None	DOA1*03:02 UHLH1*04:02 DRB5*01:01	LS2A01	500	17152	127									
34 L	None	DOB1*06:09, 06:01, 06:03 DRB5*01:01	LS2A01	500	11074	88									
35 L	None	DRB1*04:02 DRB1*04:02	LS2A01	1000	12245	50	LSM12	2.1							
38 L	EDTA	DRB3*01:01 DOB1*06:01, 06:03, 06:09 DRB5*01:01	LS2A01	1000	12091	63	LSM12	500	15894	91					
39 L	EDTA in buffer	DOA1*03:02 (01:03 not excluded) DRB1*04:02	LS2A01	1100	12843	52									
41 L	None	DRB3*01:01 DOA1*03:02 DRB1*04:02	LS2A01	2000	12407	86									
42 L	EDTA	DOA1*03:02	LS2A01	500	12478	65	LSM12	Ratio 3.5	15517	89					
45 L	EDTA	DOA1*03:02	LS2A01	1500	16500	50									
48 L	Heat inactivation	DOB1*06:03													
51 L	EDTA	DOA1*03:02 DRB5*01:01	LS2A01	900	7314	50									
54 L	None	DRB1*04:02 DOA1*03 DOA1*03	LS2A01	750	13671	60	LSM12	15778	84						
58 L	EDTA	DPB2	LS2A01	1000	13202	75	LSM12	2.5-3.0	10160	47	LMX	16439			LSAII
62 L	None	DOA1*03:02 DRB1*04:02	LS2A01	1500	15961	47									
100 L	None	DOB1*02:02 DPB1*28:01	LM2	430	17386	52	LSAII	493	18376	233					
101 L	None	DRB1*14:01	LS2A01	1000	12630	25.5									
112 L	None	DPA1*02:02	LSAII	>500	19748	202/188/706									
114 C+L	None	DPB1*28:01	LS2A01	1000	10175	28									
116 C+L	None	DRB1*04:02 DRB5*01:01 DOA1*03:02 DRB3*01:01 DRB5*01:01	LS2A01	1000	12324	40	LSM12		15650	198					
117 E+L	None	DOB1*06:01, 06:02, 06:03, 06:09 DOA1*03:02 DOA1*03:02, 06:01, 06:03, 06:09 DRB1*04:02, 16:02, 12:02	LS2A01	500	14267	43									
119 L	EDTA	DOA1*03:02 DRB5*01:01	LS2A01	1000	14145	32	LSM12	Ratio > 1.5	11482	22					
120 L	None	DOA1*03:02 UHLH1*04:02 DRB5*01:01	LS2A01	500	15787	44									
136 L	None	DOA1*01:03, 03:02 DRB1*04:02	LS2A01	1000	18574	42									
138 L	None	DOA1*03:02	LS2A01	1000	15636	48	LSM12	4	17080	75					
142 L	EDTA	DOB1*06:03 DRB1*04:02 UHLH1*04:02	LS2A01	1000	14572	28									
143 L	None	DRB5*01:01 DRB3*01:01 DOB1*06:01, 06:02, 06:03, 06:09	LS2A01	1000	11453	54									
145 L	Adsorption	DOA1*03:02 UHLH1*04:02 DRB5*01:01 DRB3*01:01	LS2A01	1000	16467	66	LSM12	1.5/12	16408	233					
147 L	None	DOA1*03:02	LS2A01	1500	14105	79	LSM12	Ratio > 5	14620	165					
149 L	None	DRB1*28:01 DRB1*13:01, 13:03, 14:01, 14:54, 14:02, 11:01, 11:04	LSAII		10000	5-2268									
157 L	EDTA	DOB1*06:03, 06:09	LS2A01	1000	15800	19									

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

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

CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 305/2015

DISPATCHED ON 10TH FEBRUARY 2015

Techniques used IgG	Sample Treatment IgG	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
Lab no.														
159 L		DQB1*06:03 DRB1*04:02 DRB5*01:01	LS2A01	1500	11857	48								
162 L	EDTA	DRB3*01:01	LS2A01	1000	17000	36	LSM12	3	17000	31				
163 L	None	DRB1*14:01, 14:54	LS2A01	1500	14159	52								
164 C+L	None	DRB1*04:02	LS2A01	1000	15113	70								
165 F+E+L	None		LS2A01	215	16515	77								
169 L	None	DQA1*01:03, 03:02, 01:02	LS2A01	1000	16558	57								
181 L	None	DRB1*04:02 DRB5*01:01 DQB1*06:02, 03, 04	LS2A01	2000	14105	22								
185 L	EDTA	DPB1*28:01	LM2		19390	45	LSAII		19794	174				
186 L	None	DRB1*04:02	LS2A01	1500	11789	25								
190 L	EDTA	DQA1*03:02	LS2A01		16630	39								
193 L	None		LS2A01	1000	14806	33								
194 L	DTT													
195 L	None	DQA1*03:02	LS2A01	1000	14700	290								
197														
204 L	EDTA	DQB1*06:03, 06:09 DRB1*04:02, 16:02	LS2A01	1000	14322	45								
206 L	EDTA (LS2A01 only)	DRB5*01:01	LS2A01	1000	11492	44	LM2	Score > 3	16153	<135				
209 L	None		LS2A01	500	14300	95								
210														
218 L	Heat inactivation	DPB1*28:01	LSAII											
227 L		DRB5*01:01	LS2A01	1000	17264	44								
232 L	None	DQA1*01, 03	LS2A01		8399	33								
235 L			LS2PRA	1000	13816	28								
238 L	None	DRB1*04:02 DPB1*28 DRB5*01:01 DRB3*01:01	LSAII	5	20794	978	LMX							
243 L	None	DRB1*06:02, 04:02 DQB1*06:03, 06:09 DRB1*04:02 DQB1*06:01, 06:03, 06:09	LS2A01	1000	9465	24								
245 L	None	DQA1*03:02	LS2A01	1000/500	17549	67								
262 L	None		LSAII	ADBCR > 5	19951	209								
267 L	None	DPB1*28:01	LM2		21342	171/158/275	LSAII	BCM > 700	19549	237/174/1080	LSMUTR	1.5/1.2	12717	40
268 L	None	DPB1*28:01 DRB1*04:02 DQB1*06:03	LM2	1000	20478	141/216/161	LSAII	1500	19417	104/89/796				
273 L		DQA1*03:02 DRB3*01:01 DRB1*04:02, 12:02, 16:02 DRB5*01:01	LS2A01	1553	11918	93								
277 L	None	DQA1*01:03, 03:02	LS2A01	500	14220	22								
284 L	EDTA	DRB3*01:01 DRB1*04:02 DRB3*01:01 DRB5*01:01 DQB1*06:03, 06:09	LS2A01	1000	12630	42	LSM12	Ratio = 3	12821	71				
292 L	None	DQA1*01:03, 01:02, 03:02	LS2A01	500	15302.31	28.07	LSM12	2.5	14044.44	24.72				
293 L	None	DPS	LS2PRA	500	14816	30								
294 L	None	DPB1*28	LSAII	ADBCR > 4	16840									
297 L	None	DRB3*01:01, 03:01												
301 L	None	DPB1*28:01	LSAII	ADBCR > 5	20201	995								
303 L	EDTA		LS2A01	1000	12271	26								
309 L	None	DQB1*06:03 DRB1*04:02 DQB1*02:02												
311 L	None	DPB1*28:01	LM2		16498	126	LSAII		16892	266				
315 L	EDTA	DQB1*06:03	LS2A01	1500	15474	49								
315 L	None	DQA1*03:02	LS2A01	2000	12543	34								

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