

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

CLASS 9 HLA ANTIBODY SPECIFICITY ANALYSIS OF 306/2016

DISPATCHED ON 28TH JUNE 2016

Technique used	Sample Treatment	High Background	Neg control serum batch	Allele Specific Antibodies IgG	Lumex kit (lot) IgG	Cut-off value IgG	Control bead Positive	Control bead Negative	Lumex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Lumex kit (lot) IgG	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative
9 L	None	No			LS2A01	1000	10298	34.67								
11 L	None	No	NC16	DRB1*14:01, 14:02	LS2A01	1000	6205	66	LSM12	2.5	7493	36				
12 L	EDTA	No	16	DP1*11:01	LS2A01	1000	13850	127	LSM12	3	60	11278				
14 L	Heat inactivation, EDTA	No	016	DRB1*14:02	LS2A01	1500	13568	31								
15 L	EDTA	No	15	DP1*11:01	LS2A01	1000	11752	31.7								
19 L	None	No		DRB1*14:02	LS2A01	1000	14127	12								
20 C+L	EDTA	No	15	DRB1*14:01, 14:02	LS2A01	1000	11371	45								
23 L	EDTA	No	016	DP1*11:01	LS2A01	1000	8397	17.31								
24 L	EDTA	No	015	DRB1*14:02	LS2A01	1000	10990	21	LSM12	4.5	9452	74	LS2PRA	1000	16168	206
25 L	EDTA	No	015	DRB1*14:02	LS2A01	1000	12626	17	LSM12	6.1	13216	33.09	LSAII	1000	19011	213
26 L	EDTA	No														
28 L	None	No	101207	DRB1*14:02	LS2A01	500	6931	17								
34 L	EDTA	No	NC15-011	DRB1*16:01, 11:01	LS2A01	547	12269	18								
35 L	EDTA	No		DRB1*14:02	LS2A01	1000	16397	39								
38 L	EDTA	No	015		LS2A01	1400	10616	16	LSAII	1824	21793	389				
39 L	None	No	LSNC015	DRB1*09:01, 14:01/02	LS2A01	1000	14849	16								
41 L	None	No	15		LS2A01	2000	11741	26								
42 L	EDTA	No			LS2A01	500	5967	29								
46 L	EDTA	No	16	DRB1*14:02	LS2A01	1500	15596	34								
48 L	Heat inactivation	No	22		LS2A01	1800	10549	77								
51 L	EDTA	No	015	DRB1*11:01	LS2A01	>850	8665	38	LSM12	>350						
54 L	EDTA	No	015	DRB1*14:02	LS2A01	1000	10079	36	LSM12	>3.0	7523	16	LSAII		16146	180
58 L	EDTA	No	015		LS2A01	1500	11752	44.11								
62 L	None	No	011-01		LSAII	545	18935	115								
100 L	None	No			LSAII	500	23975	342								
101 L	None	No		DRB1*18:01	LSAII	500	606	26								
112 L	None	No	16	DP1*11:01	LS2A01	1000	10166	85	LSM12		9089	128				
114 L	EDTA	No	016		LS2A01	500	14009	18								
116 C+L	None	No	016	DRB1*14:01, 14:02	LS2A01	>1000	11407	48	LSM12	>1.6	7891	28				
117 E+L	None	No		DRB1*14:01, 14:02	LS2A01	500	8861	22								
119 L	EDTA	No		DQA1*03:01, 03:02, 03:03	LSAII		17452	189								
120 L	EDTA	No		DQA1*03:01, 03:02, 03:03, 05:05, 06:01	LS2A01	1000	13279	29								
133 L	None	No		DRB1*14:02	LS2A01	1000	10363	23								
136 L	None	No		DRB1*14:02	LS2A01	1000	8688	32								
139 L	EDTA	No	LSNC16	DRB1*14:02	LS2A01	1000	9629		LSM12	4	9481	30				
142 L	EDTA	No		DRB1*14:02	LS2A01	1000	9496	100								
143 L	None	No	015		LS2A01	1000	8689	27	LSM12	1.5/1.2	9325	120				
145 L	None	No	NC15	DRB1*14:02	LS2A01	1000	9689	27	LSM12	>5	8318	45				
147 L	None	No			LS2A01	1000	12098	28								
149 L	None	No	15	DRB1*14:02	LS2A01	1000	6334	24								
159 L	None	No	15	DQA1*03:02, 05:03, 05:05, 06:01	LS2A01	1500	7500	15								
160 L	Adsorption beads	No	14		LS2A01	500	15960	30	LSM12	3	10668	93				
162 L	EDTA	No			LS2A01	1000	10023	38								
163 L	EDTA	No			LS2A01	1500	10447	23								
164 L	None	No			LS2A01	1000	3120	144								
165		No		DRB1*14:02	LS2A01	1000	9048	45								
169 L	None	No		DQA1*03:01, 03:02, 05:03, 05:05, 06:01	LSAII	500	17862	155								
181 L	None	No	82521	DP1*11:01	LS2A01	500	8837	40	LSAII	1000	19726	90	LMX			
182 L	EDTA	No			LSAII	1000	9948	17								
186 L	None	No			LS2A01	1000	9038	50								
190 L	EDTA	No		DRB1*14:02	LS2A01	1000	12000	22								
193 L	EDTA	No			LS2A01	1400	8657	19								
194 L	DTT	No			LS2A01	1000	9418	41								
195 L	None	No			LS2A01	1000	11802	51								
197 L	EDTA	No	15	DRB1*14:02	LS2A01	1000	18905	231								
204 L	EDTA	No	16	DRB1*11:01	LS2A01	1000	500	18905								
206 L	EDTA	No		DRB1*14:02	LS2A01	1000	11802	51								
209		No		DP1*11:01	LSAII	500	18905	231								
214 L	None	Yes		DRB1*14:02	LS2A01	500										
218 L	Heat inactivation	No		DQA1*03:01, 03:02, 03:03, 04:02, 04:05, 09:01, 10:01, 13:03, 15:01	LSAII		17948									
227 L	Dilution, EDTA	No		DRB1*01:01, 01:02, 04:01, 04:04, 04:05, 11:01, 14:01, 15:02	LS2A01	1200	6188	8								
229 F	None	No		DQA1*03:01, 03:02, 03:03, 05:05, 06:01	LS2PRA	1000	12905	67.02								
232 L	None	No	NC16	DRB1*14:02, 03, 05, 06	LS2A01	1000	19406	251								
235 L	DTT	Yes	54424		LSAII	500	8263	33	NT	NT	NT	NT	NT	NT	NT	NT
238 L	None	Yes	251		LSAII	500	8263	33	NT	NT	NT	NT	NT	NT	NT	NT
242 NT	NT	NT	NT	DP1*11:01	LS2A01	1000/9000										
245 L	EDTA	No			LSAII	AD BCR-5	21132	261								
252		No	151		LSAII	BC2b700	20238	396								
262 L	None	No		DRB1*18:01	LSAII	1906	19206	221	LM2	1000	20435	174289/137				
267 L	None	No			LS2A01	1982	10597	26								
268 C+L	None	No		DRB1*14:01, 14:02	LS2	500	9953	21								
273 L	None	No		DP1*11:01	LS2A01	1000	9901.9	277.95	LSM12	>3	9049	36				
277 L	EDTA	No	66531	DRB1*16:01	LS2A01	500	8245	30	LSM12	2.5	13386	61				
284 L	EDTA	No		DQA1*03:02, 05:03, 05:05, 06:01	LS2A01	500	5917	10	LS2PRA	500	5917	10				
284 L	None	No			LSAII		17086		LMX		16519	76/102				
297 L	EDTA	No	LSNC01		LS2A01	1500	7755	15								
303 L	EDTA	No	016	DRB1*14:02	LS2A01	1000	7452	24								
309 L	None	No			LSAII	600	20164	117								
311 L	EDTA	No			LS2A01	1500	9388	46								
315 L	EDTA	No	LSNC015	DQ3 DR4	LS2A01	2000	8783	45								
323 L	EDTA	No			LSAII	1000	9055	14								
321 L	None	No			LSAII	>1500	9000	100	LSAII	>1500	9000	100				

Technique : C = CBC; E = ELISA; F = Flow cytometry; L = Lumex; O = Other

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CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 307/2016
DISPATCHED ON 28TH JUNE 2016

Techniques used IgG	Sample Treatment IgG	High Background	Neg control serum batch	Allele Specific Antibodies IgG	Luminex kit (lot)	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative
Lab no.																
9 L	None	No		DP1, 3, 11, 19, 20 DPA1*02:01, 02:02	LS2A01	1000	8518	17.8								
11 L	None	No	NC15	DP1, 3, 11, 19, 20 DPA1*02:01, 02:02 DPB1*01:01, 03:01, 05:01, 06:01, 09:01, 10:01, 11:01, 13:01, 14:01, 15:01, 17:01, 18:01, 19:01, 20:01, 28:01	LS2A01	1000	5512	27	LSM12	2.5	4368	22				
12 L	EDTA	No	16	DPB1*01:01, 03:01, 05:01, 06:01, 09:01, 10:01, 11:01, 13:01, 14:01, 15:01, 17:01, 18:01, 19:01, 20:01, 28:01	LS2A01	1000	10662	46	LSM12	3	7301	25				
14 L	Heat inactivation, EDTA	No	016	DQA1*01:01 DQB1*05:01 DPA1*01:03, 01:05, 02:01, 02:02, 03:01, 04:01 DPB1*01:01, 03:01, 05:01, 06:01, 09:01, 10:01, 11:01, 13:01, 14:01, 15:01, 17:01, 18:01, 19:01, 20:01, 28:01	LS2A01	1500	11709	18								
15 L		No		DRB4*01:03 DPA2, *04:01 DP1, 3, 6, 11, 13, 19, 20 DP1, 5, 6, 3, 9, 10, 11, 13, 14, 15, 17, 19, 20	LS2A01	1000	12349	24								
19 L	None	No		DP1, 5, 6, 3, 9, 10, 11, 13, 14, 15, 17, 19, 20	LS2A01	1000	11763	34								
20 C+L	EDTA	No	15	DPA1*02:01, 04:01 DPB1*01:01, 03:01, 05:01, 06:01, 09:01, 10:01, 11:01, 13:01, 14:01, 15:01, 17:01, 19:01, 20:01	LS2A01	1000	10083	14								
23 L	EDTA	No	016	DQB1*05:01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 18, 19, 20, 28	LS2A01	1000	6968	9.1								
24 L	EDTA	No	015	DP1, 3, 5, 6, 9, 10, 11, 13,1 4, 15, 17, 19, 20, DPA1*02, 04 DQA1*02:01	LS2A01	1000	9800	19	LSM12	4.5	8400	35	LS2PRA	1000	13982	134
25 L	EDTA	No	015	DPB1*01, 03, 04:01, 05, 06, 09, 10, 11, 13, 14, 15, 17, 18, 19, 20, 28 DPA1*02:01, 02:02, 04:01	LS2A01	1000	11112	13	LSM12	6.1	12054	20.34	LSAII	1500	19294	126
26 L	EDTA			DQB1*05:01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 18, 19, 20, 28	LS2A01	500	5789	13								
28 L	None	No	101207	DPB1, 5, 6, 9, 10, 11, 13, 14, 15, 17, 19, 20 DPA1*02:01, 04:01 DPB1*18:01, 28:01	LS2A01	760	10775	18								
34 L	EDTA	No	NC15-011	DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 19, 20 DPA1*02:01, 02:02, 04:01	LS2A01	1000	16110	23								
35 L	EDTA	No		DQA1*01:01, 02:01, 03:01, 03:02, 03:03, 04:01, 05:01, 05:03, 05:05, 06:01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 18, 19, 20, 28	LS2A01	1000	8091	39	LSAII	1207	17782	219				
38 L	EDTA	No	015	DQA1*04, 05, 06 DPB1*01:01, 03:01, 05:01, 06:01, 09:01, 10:01, 11:01, 13:01, 14:01, 15:01, 17:01, 18:01, 19:01, 20:01, 28:01 DPA1*02	LS2A01	1000	8091	39	LSAII	1207	17782	219				
39 L	None	No	LSNC015	DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 19, 20 DPA1*02:01, 02:02, 03:01, 04:01	LS2A01	1200	13185	15								
41 L	None	No	15	DQB1*05:01 DPB1*01, 03, 05, 06, 09, 10, 11, 13, 14, 15, 17, 18, 19, 20, 28	LS2A01	2000	9467	18								
42 L	EDTA	No		DRB3*03:01 DP1, 3, 5, 6, 10, 11, 13, 19, 20 DPA1*02:01 DQB1*05:01	LS2A01	500	5494	20								
45 L	EDTA	No	16	DPB1*01, 03, 05, 06, 09, 10, 11, 13, 14, 17, 19, 20 DPA1*02, 04 DPB1*01, 03, 05, 06, 09, 10, 11, 13, 14, 15, 17, 19, 20	LS2A01	1500	11559	21								
48 L	Heat inactivation	No	22	DPB1*01, 03, 05, 06, 09, 10, 11, 13, 14, 15, 17, 19, 20 DPA1*02:01, 04:01												
51 L	EDTA	No		DPB1*01, 03, 05, 06, 09, 10, 11, 13, 14, 15, 17, 19, 20	LS2A01	900	211550	20								

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54 L	EDTA	No	15	DPB1*01:03, 05, 06, 09, 10, LS2A01 11, 13, 14, 15, 17, 18, 19, 20, 28	>750	7191	25	LSM12	>350					
58 L	EDTA	No	015	DPB1, 3, 5, 6, 9, 10, 11, 13, LS2A01 14, 15, 17, 18, 19, 20, 28 DPA1*02, 04	1000	8196	22	LSM12	>3.0	6730	8	LSAII	16036	126
62 L	None	No	011-01	DPA1*02, 03, 04 DPB1, 3, 6, 11, 19	1500	11470	25,36							
100 L	None	No		DRB4*01:01 DQA1*02, 03, 04, 05, 06 DPB1*01, 03, 05, 13, 14, 17, 19, 28 DPA1*02, 04 DOB1*05:01	969	18524	200	LSAII						
101 L	None	No		DQA1*02, 03, 04, 05, 06 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 18, 19, 20, 28 DPA1*02:01, 04:01		7366	23	LS2A01						
112 L	None	No		DQA1*02:01, 03:01, 03:02, LSAll 04:01, 05:01, 06:01 DPA1*02:01, 02:02, 04:01 DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01, 28:01	>500	21634	250	LSAII						
114 L	EDTA	No		DQA1*02:01, 03:01, 03:02, LS2A01 03:03, 04:01, 05:01, 05:03, 05:05, 06:01 DPA1*02:01, 02:02, 03:01, 04:01	1000	7483	16							
116 C+L	EDTA	No	16	DP1, 3, 5, 6, 11, 13, 19 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 18, 19, 20, 28	1000	8623	26	LSM12		7168			39	
117 E+L	None	No	016	DQA1*03:02 DPB1*01, 03, 05, 06, 09, 10, 11, 13, 14, 15, 17, 19, 20 DPA1*02:01, 02:02, 03:01, 04:01	500	11781	13	LS2A01						
119 L	EDTA	No	016	DPB1*01:01, 03:01, 05:01, LS2A01 06:01, 09:01, 10:01, 11:01, 13:01, 14:01, 15:01, 17:01, 18:01, 19:01, 20:01, 28:01	>1000	12141	39	LSM12	>1.6	6540			14	
120 L	EDTA	No		DRB3*03:01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 18, 19, 20	500	7243	11	LS2A01						
133 L	None	No		DOB1*02:01, 02:02, 03:01, LSAll 03:02, 03:03, 04:01, 04:02 DRB1*07:01 DQA1*02:01, 03:01, 03:02, 04:01, 05:01, 06:01 DPA1*02:01, 02:02, 04:01 DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01, 28:01		16454	125	LSAII						
136 L	None	No		DRB3*03:01 DQA1*02:01, 03:01, 03:02, 03:03, 04:01, 05:01, 05:03, 05:05, 06:01 DP1, 3, 5, 6, 11, 13, 19 DPA1*02:02, 03:01, 04:01	1000	10786	19	LS2A01						
139 L	EDTA	No	LSCN16	DOB1*05:01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 19, 20 DPA1*04:01	1000	8486	17	LSM12	4	9840			30	
142 L	EDTA	No		DPB1*01:01, 03:01, 05:01, LS2A01 06:01, 09:01, 10:01, 11:01, 13:01, 14:02, 15:01, 17:01, 18:01, 19:01, 20:01, 28:01 DPA1*01:03, 01:05, 02:01, 02:02, 03:01, 04:01	1000	9292	13	LS2A01						
143 L	None	No	015	DPB1*01:01, 03:01, 05:01, LS2A01	1000	6035	32							
145 L	None	No	NC15	06:01, 09:01, 10:01, 11:01, 13:01, 14:01, 15:01, 17:01, 18:01, 19:01, 20:01, 28:01 DPA1*01:03, 01:05, 02:01, 02:02, 03:01, 04:01	1000	8698	25	LSM12	1.5/1.2	7151			95	
147 L	None	No		DOB1*05:01 DPB1*01, 03, 06, 09, 10, 11, 13, 14, 15, 17, 19, 20	1000	9267	33	LSM12	>5	7358			30	
149 L	None	No												
157 L	EDTA	No	15	DQA1*02:01, 03:01, 03:02, LS2A01 03:03, 04:01, 05:01, 05:03, 05:05, 06:01 DPB1*01:01, 03:01, 05:01, 06:01, 09:01, 10:01, 11:01, 13:01, 14:01, 15:01, 17:01, 19:01, 20:01 DPA1*02:01, 03:01, 04:01	1000	10303	22	LS2A01						
159 L	None	No	15	DP1, 3, 5, 6, 9, 10, 11, 13, LS2A01 14, 17, 19, 20	1500	10430	24							
160 L	Adsorption beads	No	14	DP1, 3, 5, 6, 9, 10, 11, 13, LS2A01 14, 15, 17, 18, 19, 20, 28	500	7000	21							

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162 L	EDTA	No		DPB1*01:03, 05, 06, 09, 10, LSA01 11, 13, 14, 15, 17, 19, 20 DPA1*02:01, 04:01	1000	11076	25	LSM12	3	7231	24								
163 L	EDTA	No		DP1, 3, 5, 6, 9, 10, 11, 13, LSA01 14, 15, 17, 19, 20 DPA1*02, 04:01	1500	8119	17												
164 L	None	No		DQB1*05:01 LSA01 DQA1*03:02, 03:03, 04:01 DPB1*01, 03, 05, 06, 10, 11, 13, 14, 15, 17, 19, 20 DPA1*02:01, 04:01	1500	3699	32												
165 L	None	No		DQA1*02:01, 03:01, 03:02, LSA01 03:03, 04:01, 05:01, 05:03, 05:05, 06:01 DPB1*01:01, 03:01, 05:01, 06:01, 09:01, 10:01, 11:01, 13:01, 14:01, 15:01, 17:01, 18:01, 19:01, 20:01, 28:01 DPA1*02:01, 02:02, 03:01, 04:01	1000	7803	45												
181 L	None	No	82521	DP1, 3, 5, 6, 9, 10, 11, 13, LSA01 14, 15, 17, 18, 19, 20, 28	500	7061	32												
185 L	EDTA	No		DQA1*02:01, 03, 04:01, LSAII 05:01, 06:01 DPB1*01, 03, 05, 13, 14, 17, 19 DPA1*02, 04		18634	142	LM2		18658	78	LMX							
186 L	None	No		DQA1*02 LSA01 DPB1*01, 03, 04, 05, 13, 14, 17, 19, 28	1000	7354	24	LSAII	1000	16087	126								
190 L	EDTA	No		DPB1*01, 03, 05, 06, 09, 10, LSA01 11, 13, 14, 15, 17, 19, 20 DPA1*02, 04		7654	24												
193 L	EDTA	No		DPB1*01, 03, 05, 06, 09, 10, LSA01 11, 13, 14, 15, 17, 18, 19, 20, 29	1000	8302	10												
194 L	DTT	No		DP1, 2, 3, 5, 6, 9, 10, 11, LSA01 13, 14, 15, 17, 18, 19, 20, 29															
195 L	None	No		DP1, 3, 5, 6, 9, 10, 11, 13, LSA01 14, 15, 17, 19, 20, 28 DPA1*02, 04	1400	12000	18												
197 L	EDTA	No	15	DRB3*03:01 LSA01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 19, 20, DPA1*02:01	1000	7521	14												
204 L	EDTA	No	16	DQB1*05:01 LSA01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 19, 20 DQB1*05:01	1000	7305	20												
206 L	EDTA	No		DP1, 3, 5, 6, 9, 10, 11, 13, LSA01 14, 15, 17, 19, 20 DQB1*05:01	500	12061	40												
209 L	EDTA	No		DQA1*03, 04, 05, 06 DPB1*01, 03, 06, 13, 17, 19, 20 DPA1*02, 04															
214 L	None	Yes		DQB1*02:01, 02:02, 03:01, LSAI&II 03:02, 03:03, 04:01, 04:01 DRB1*07:01 DRB4*01:01 DQA1*02:01, 03:01, 03:02, 04:01, 05:01, 06:01 DPA1*02:01, 02:02, 04:01 DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01, 28:01	500	17609	222												
218 L	Heat inactivation	No		DQB1*02:01, 02:02, 03:01, LSAII 03:02, 03:03, 04:01, 04:02 DRB1*07:01 DRB4*01:01 DQA1*03:01, 03:02, 04:01, 05:01, 06:01 DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01, 28:01		16820													
227 L	Dilution, EDTA	No		DP1, 3, 5, 6, 9, 10, 11, 13, LSA01 14, 15, 17, 19, 20 DPA1*02:01, 04:01															
229 F	None	No		DRB1*03:01, 07:01, 10:01 LSA01 DQA1*02:01, 03:01, 04:01															
232 L	None	No	NC16	DQA1*01, 02, 03, 04, 05, 06 LSA01 DPB1*01, 03, 05, 06, 09, 10, 11, 13, 14, 15, 17, 18, 19, 20, 28 DPA1*01, 02, 03, 04	1200	6615	17												
235 L	DTT	No	54424	DQA1*02, 03, 04, 05, 06 LSA01	1000	10927	43.8												
238 L	None	No	192	DQA1*02, 03, 04, 05, 06 LSAII	500	16539	192												
242 NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
245 L	EDTA	No		DP1, 3, 5, 6, 9, 10, 11, 13, LSA01 14, 15, 17, 19, 20 DPA1*02:01, 04:01	1000/500	6720	22												
252																			

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

262 L	None	No	151	DPB1*01:03, 05, 13, 14, 17, LSAII	AD BCR>5	21064	219					
267 L	None	No		DQA1*02:01, 03:01, 03:02, LSAII 03:03, 04:01, 05:01, 06:01 DPA1*02:01, 02:02, 04:01 DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01, 28:01	BCM>7000	18368	293					
268 C+L	None	No		DRB1*05:01 LSAII		1500	16559	155	LM2	1000	18026	36/163/106
273 L	None	No		DQA1*01:01 DP1, 3, 5, 6, 9, 10, 13, 14, 15, 17, 18, 19, 20, 28		1252	7644	20				
277 L	EDTA	No		DPB1*18:01, 28:01 DPA1*02:01, 04:01 DPA1*02:02, 03:01, 04:01 LSA2A01		500	8864	16				
284 L	EDTA	No		DPB1*01:01, 02:02, 03:01, 05:01, 06:01, 09:01, 10:01, 11:01, 13:01, 17:01, 19:01, 20:01	LS2A01	>1000	8620.9	24.98	LSM12	>3	8009	25
292 L	EDTA	No	66531	DQA1*02:01, 03:01, 03:02, 03:03, 04:01, 05:01, 05:03, 05:05, 06:01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 19, 20 DPA1*02:01, 02:02, 03:01, 04:01	LS2A01	500	8376	24	LSM12	2.5	12457	33
293 L	None	No		DP1, 3, 5, 6, 9, 10, 11, 14, 17, 18, 19, 20, 28	LS2A01	500	4616	12	LS2PRA	500	4616	12
294 L	None	No		DPB1*01:01, 03:01, 05:01, 13:01, 14:01, 17:01, 19:01, 28:01	LSAII		16812		LMX		16110	67/87
297 L	EDTA	No		DPB1*02, 04 DPB1*01:01, 03:01, 05:01, LSA2A01 09:01, 10:01, 11:01, 13:01, 14:01, 15:01, 17:01, 18:01, 19:01, 20:01, 28:01 DPA1*04:01		1500	6487	15.78				
303 L	EDTA	No	016	DP1, 3, 5, 6, 9, 10, 11, 13, 14, 15, 17, 18, 19, 20, 28	LS2A01	1000	6972	30				
309 L	None	No		DQA1*02, 03, 04, 05, 06 LSAII DPB1*01, 03, 05, 13, 14, 17, 18, 28		400	19115	151				
311 L	EDTA	No		DPB1*02, 04 DP1, 3, 5, 6, 9, 10, 13, 14, 15, 17, 19, 20	LS2A01	1500	7690	34				
315 L	EDTA	No		DPA1*02:01, 04:01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20	LS2A01	2000	6581	10				
323 L	EDTA	No		DPA1*02:01 DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 18, 19, 20	LS2A01	1000	7651	12				
351 L	None	No		DQA1*03, 04, 06 LSAII DPA1*02, 04		>1500	9000	100	LSAJ&II	>1500	9000	100

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

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

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HLA specificity for assessment																																	
Lab no.	DR15 Absent 1.2%			DR16 Absent 3.7%			DR17 Absent 1.2%			DR18 Not Assessed 7.3%			DR11 Present 98.8%			DR12 Absent 1.2%			DR13 Absent 1.2%			DR14 Absent 1.2%			DR1404 Absent 1.2%			DR9 Not Assessed 36.6%			DR51 Not Assessed 8.5%		
	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	spec	tech	MFI
9																																	
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227																																	
229																																	
232																																	
235																																	
238																																	
242	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	NT	NT			
245																																	
252																																	
262																																	
267																																	
268																																	
273																																	
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297																																	
303																																	
309																																	
311																																	
315																																	
323																																	
351																																	

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 308/2016

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HLA specificity for assessment																			
Consensus % reported	DQ6 Absent 2.4%			DQ2 Absent 3.7%			DQ7 Present 92.7%			DQ8 Present 81.7%			DQ9 Present 81.7%			DQ4 Absent 2.4%			
	Lab no.	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI	spec	tech	MFI
9							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
11							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
12				DQ2	L	< 2000	DQ7	L	> 5000		DQ8	L	> 5000	DQ9	L	> 5000	DQ4	L	< 2000
14							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
15				DQ2	L	< 2000	DQ7	L	2000-5000		DQ8	L	< 2000	DQ9	L	2000-5000			
19							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
20							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
23							DQ7	L	< 2000		DQ8	L	2000-5000	DQ9	L	2000-5000			
24							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
25							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
26																			
28							DQ7	L	2000-5000		DQ8	L	< 2000	DQ9	L	< 2000			
34							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	2000-5000			
35							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
38							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
39				DQ2	L	2000-5000	DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
41							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
42							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
45							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
48							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
51							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
54							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
58							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
62							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
100							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
101							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
112							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
114							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
116							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
117							DQ7	E+L	2000-5000		DQ8	E+L	2000-5000	DQ9	E+L	2000-5000			
119							DQ7	L	< 2000, 2000-5000, > 5000		DQ8	L	< 2000	DQ9	L	< 2000, 2000-5000			
120							DQ7	L	2000-5000		DQ8	L	< 2000	DQ9	L	< 2000			
133							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
136							DQ7	L	2000-5000				DQ9	L	2000-5000				
139							DQ7	L	2000-5000										
142							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
143							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
145							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	< 2000, > 5000			
147							DQ7	L	2000-5000		DQ8	L	< 2000	DQ9	L	< 2000			
149							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
157							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
159							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
160							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
162							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
163							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
164							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
165																			
169							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
181							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
185							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
186							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
190							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
193							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
194							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
195							DQ7	L	> 5000		DQ8	L	2000-5000	DQ9	L	> 5000			
197	DQ6	L					DQ7	L	2000-5000		DQ8	L	< 2000	DQ9	L	2000-5000			
204							DQ7	L	2000-5000		DQ8	L	< 2000	DQ9	L	2000-5000			
206							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
209							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
214																			
218							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
227							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
229	DQ6	F					DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	2000-5000	DQ4	F	
232																			
235																			
238							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
245							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
252																			
262							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
267							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
268																			
273							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
277							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
284							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	< 2000			
292							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
293							DQ7	L	2000-5000		DQ8	L	< 2000	DQ9	L	2000-5000			
294							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
297							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
303							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
309							DQ7	L	< 2000		DQ8	L	< 2000	DQ9	L	< 2000			
311							DQ7	L	2000-5000		DQ8	L	2000-5000	DQ9	L	2000-5000			
315																			
323							DQ7	L	< 2000				DQ9	L	< 2000				
351							DQ7	L	< 2000										

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

2	< 2000	3	< 2000	76	< 2000	67	< 2000	67	< 2000	2	< 2000
82	0	82	2	82	23	82	24	82	18	82	1
	2000-5000		2000-5000		2000-5000		2000-5000		2000-5000		2000-5000
0		1		47		37		43		0	
	> 5000		> 5000		> 5000		> 5000		> 5000		> 5000
0		0		3		1		3		0	

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

CLASS II HLA ANTIBODY SPECIFICITY ANALYSIS OF 308/2016

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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)	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative
9 L		None	No		DPB1*04:02 DP1, 2, 3, *04:02, 9, 10, 14, 17, 18, 20, 28	LS2A01	1000	9623	75.89								
11 L		None	No	NC16	DPB1*01:01, 02:01, 03:01, 04:01, 04:02, 06:01, 09:01, 10:01, 14:01, 17:01, 18:01, 20:01, 28:01	LS2A01	1000	6284	42	LSM12	2.5	5046	16				
12 L		EDTA	No	16	DQB1*02:01 DQA1*03:01, 03:03; DQB1*02:01, 04:01 DPB1*01:01, 02:01, 03:01, 04:02, 05:01, 06:01, 09:01, 10:01, 13:01, 14:01, 17:01, 18:01, 20:01, 28:01 DPA1*01:03, 02:02	LS2A01	1000	12599	90	LSM12	3	7904	49				
14 L		Heat inactivation, EDTA	No	016	DQA1*03:02, 05:03, 05:05, 06:01 DQB1*03:01, 03:02, 03:03 DPA1*01:03, 01:04, 01:05, 02:01, 02:02, 03:01, 04:01 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	LS2A01	1500	11969	23								
15 L		EDTA	No	015	DRB1*09:01 DQA3 DPB1*1, 02:01, 3, 04:02, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	1000	16210	37								
19 L		None	No		DQA1*03:02 DP2, 3, *04:02, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	1000	11453	32								
20 C+L		EDTA	No	15	DRB1*09:01 DQA1*02:01, 03:02 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 DPA1*01:03 DQA1*03:02 DP2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	1000	11361	32								
23					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 DPA1*01:03 DQA1*03:02 DP2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	1000	7984	11.18								
24 L		EDTA	No	015	DQA1*03:02 DP2, *04:02, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	1000	10985	25	LSM12	4.5	5575	41	LS2PRA	1000	14931	84
25 L		EDTA	No	015	DPB1*01, 02, 03, 04:02, 06, 09, 10, 14, 17, 18, 20, 28 DPA1*01:03	LS2A01	1000	11977	26	LSM12	6.1	13692	35.23	LSAII	1500	19606	133
26 L		EDTA			DP2, *03:01, 9, *18:01, 20, *28:01 DPA1*01:03, 01:05, 02:01												
28 L		None	No	101207	DRB1*09:01 DQA1*03:01, 03:02 DQB1*03:02 DPA1*01:03 DP*01:01, 2, 3, *04:02, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	500	6694	36								
34 L		EDTA	No	NC15-011	DQA1*03:02, 05:03, 05:05, 06:01 DP2, 3, *04:02, 6, 9, 10, 14, 17, 18, 20, 28 DQA1*03:02, 05:03, 05:05, 06:01 DP2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	1000	11116	23								
35					DQA1*03:02, 05:03, 05:05, 06:01 DP2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	1000	16164	25								
38 L		EDTA	No	015	DQA1*03:02, 05, 06 DPB1*02:01, 03:01, 04:02, 06:01, 09:01, 10:01, 14:01, 17:01, 18:01, 20:01, 28:01	LS2A01	1300	8253	31	LSAII	446	17294	125				
39 L		None	No	LSNC015	DQA1*03:01, 03:02, 03:03 DP2, 3, *04:02, 6, 9, 10, 14, 17, 18, 20, 28 DPA1*02:02, 13:01	LS2A01	1300	13784	28								
41 L		None	Yes	15	DPB1*02, 03, 04:02, 06, 09, 10, 14, 17, 18, 20, 28	LS2A01	2000	9363	26								
42 L		EDTA	No		DQA1*03:02, 05:03, 05:05, 06:01 DP2, 3, *04:02, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	500	8101	27								
45 L		EDTA	No	16	DPB1*02:01, 03, 04:02, 06, 09, 10, 14, 17, 18, 20, 28	LS2A01	1500	11101	30								
48 L		Heat inactivation	No	22	DPB1*02, 03, 04:02, 06, 09, 10, 14, 17, 18, 20, 28												
51 L		EDTA	No		DPB1*01, 02, 03, 04, 06, 09, 10, 14, 17, 18, 20, 28	LS2A01	600	13500	37								

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54 L	EDTA	No	15	DRB1*09:01 DPB1*01:02, 03, 04, 06, 09, 10, 14, 17, 18, 20, 28	LSZA01	>750	11211	24	LSM12	>350						
58 L	EDTA	No	015	DPB1, 2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28	LSZA01	1000	8685	32	LSM12	3	7826	11.5	LSAII	16147	85	
62 L	None	No	011-01	DPB1, 2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28	LSZA01	1500	12788	45.04								
100 L	None	No		DRB5*01:01 DPB1*02, 03, 04, 13, 14, 17, 18, 28	LSAII	599	16890	177								
101 L	None			DQA1*03:02, 05:03, 05:05, 06	LSZA01		9304	24								
112 L	None			DP2, 3, *04:02, 9, 18, 28 DPB1*02:01, 03:01, 04:02, 14:01, 17:01, 18:01, 28:01	LSAII	>500	21019	250								
114 L	EDTA			DRB1*09:01 DPB1*04:02 DQA1*03:01, 03:02, 05:03, 05:05, 06:01 DPA1*01:04, 01:05, 02:01, 04:01 DP2, 3, 4, 6, 10, 18, 20, 28	LSZA01	1000	9419	41								
116 C+L	EDTA	No	16	DRB1*09:01 DP1, 2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28	LSZA01	1000	8521	40	LSM12		7188	50				
117 E+L	None	No	016	DQA1*03:02 DPB1*01, 02, 03, 04, 06, 09, 10, 11, 14, 17, 18, 20, 28 DPA1*01:05, 04:01, 04:02	LSZA01	500	12559	17								
119 L	EDTA	No	016	DRB1*09:01 DQA1*03:02 DPB1*02:01, 03:01, 04:01, 06:01, 09:01, 10:01, 14:01, 17:01, 18:01, 20:01, 28:01	LSZA01	>1000	11367	32	LSM12	>1.6	6630	19				
120 L	EDTA	No		DRB1*09:01 DP2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28	LSZA01	500	8174	15								
133 L	None	No		DRB1*11:01, 11:04 DQB1*03:01, 03:02 DRB5*01:01 DPB1*02:01, 03:01, 04:02, 14:01, 17:01, 18:01, 28:01	LSAII		15325	107								
136 L	None	No		DRB1*09:01 DQA1*03:01, 03:02, 05:03, 05:05, 06:01 DP3, 6, 18, 20, 28 DPA1*01:03, 01:04, 01:05, 02:01, 02:02, 04:01	LSZA01	1000	13379	43								
139 L	EDTA	No	LSCN16	DQA1*03:02, 05:03, 05:05, 06:01 DP2, 3, *04:02, 6, 9, 10, 14, 17, 18, 20, 28	LSZA01	1000	9488	26	LSM12	4	9608	27				
142 L	EDTA	No		DQB1*03:02, 03:03 DQA1*02:01, 03:02 DPB1*02:01, 03:01, 04:02, 06:01, 09:01, 10:01, 14:01, 17:01, 18:01, 20:01, 28:01 DPA1*01:03, 01:04, 01:05, 02:01, 02:02, 03:01, 04:01,	LSZA01	1000	10073	25								
143 L	EDTA	No	015	DQA1*03:02 DPB1*02:01, 03:01, 04:02, 06:01, 09:01, 14:01, 17:01, 18:01, 20:01, 28:01 DPA1*01:03, 01:04, 01:05, 02:01, 03:01, 04:01	LSZA01	1000	6359	29								
145 L	None	No	NC15	DQA1*03:02 DPB1*02:01, 03:01, 04:02, 06:01, 09:01, 14:01, 17:01, 18:01, 20:01, 28:01 DPA1*01:03, 01:04, 01:05, 02:01, 03:01, 04:01	LSZA01	1000	9990	37	LSM12	1.5/1.2	8311	85				
147 L	None	No		DRB1*09:01 DQA1*03:02, 05:03, 05:05, 06:01 DPB1*01, 02, 03, 04:02, 06, 09, 10, 14, 17, 18, 20, 28	LSZA01	1000	10133	91	LSM12	>5	10285	83				
149 L	None	No		DRB1*09:01 DQA1*03:02, 05:03, 05:05, 06:01 DPB1*02:01, 03:01, 04:02, 06:01, 09:01, 10:01, 14:01, 17:01, 18:01, 20:01, 28:01 DPA1*01:04, 01:05, 04:01	LSZA01	1000	11320	33								
157 L	EDTA	No	15	DRB1*09:01 DQA1*03:02, 05:03, 05:05, 06:01 DPB1*02:01, 03:01, 04:02, 06:01, 09:01, 10:01, 14:01, 17:01, 18:01, 20:01, 28:01 DPA1*01:04, 01:05, 04:01	LSZA01	1000	11320	33								
159 L	None	No	15	DRB1*09:01 DPB1*1, 2, 3, 04:02, 6, 9, 10, 14, 17, 18, 20, 28	LSZA01	1500	10157	50								
160 L	Adsorption beads	No	14	DP2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28	LSZA01	500	6600	15								
162 L	EDTA	No		DQA1*03:02 DPB1*02, 03, 04:02, 06, 09, 10, 14, 17, 18, 20, 28	LSZA01	1000	12386	30	LSM12	3	10536	235				
163 L	EDTA	No		DQA1*03:02 DP2, 3, *04:02, 6, 9, 10, 14, 18, 20, 28	LSZA01	1500	9002	18								

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164 L	None	No		DQA1*03:02 DPB1*01:02, 03, 04:02, 06, 09, 10, 14, 17, 18, 20, 28	LS2A01	1500	9572	28											
165 169 L	None	No		DQA1*03:01, 03:02, 05:03, 05:05, 06:01 DPB1*01:01, 02:01, 03:01, 04:02, 06:01, 09:01, 10:01, 13:01, 14:01, 17:01, 18:01, 20:01, 28:01 DPA1*01:03, 01:04, 01:05, 02:01, 04:01	LS2A01	1000	13099	144											
181 L	None	No	82521	DQA1*03:01, 03:02 DP1, 2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	500	8105	44											
185 L	EDTA	No		DPB1*02, 03, 04, 13, 14, 17, LSAII 18, 28			17994	158	LM2		18517	96							
186 L	None	No		DPB1*02, 03, 04, 13, 14, 17, LSA01 18, 28		1000	8945	60	LSAII	1000	17763	142							
190 L	EDTA	No		DQA1*03 DPB1*02, 03, 06, 09, 10, 14, 17, 18, 20, 28	LS2A01	1000	8940	48											
193 L	EDTA	No		DPB1*02, 03, 04, 06, 09, 10, LSA01 14, 17, 18, 20, 28		1000	9777	12											
194 L	DTT	No		DP2, 3, 04:02, 6, 9, 10, 14, LSA01 17, 18, 20, 28															
195 L	None	No		DP1, 2, 3, 4, 6, 9, 10, 14, LSA01 17, 18, 20, 28		1400	14000	64											
197 L 204 L	EDTA	No	15	DQA1*03:02 DP2, *04:02, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	1000	8407	22											
206 L	EDTA	No	16	DQA1*03:02 DP1, 2, 3, *04:02, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	1000	7965	28											
209		No		DPA1*01:03 DRB1*09:01 DQA1*03:02, 05, 06 DQB1*03:01 DPB1*01, 02, 03, 04:02, 06, 09, 10, 13, 14, 17, 18, 20, 28	LS2A01	500	8717	27											
214 L	None	Yes		DRB1*11:01, 11:04 DRB5*01:01 DPB1*02:01, 03:01, 04:02, 14:01, 17:01, 18:01, 28:01	LSAII&II	500	13126	70											
218 L	Heat inactivation	No		DQB1*03:01, 03:02, 03:03 DRB1*11:01, 14:04, 16:01 DRB5*01:01 DPB1*02:01, 03:01, 04:02, 14:01, 17:01, 18:01, 28:01	LSAII		18455												
227 L	Dilution, EDTA	No		DP2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28															
229 F	None	No		DRB1*03:02, 09:01, 11:01 DQB1*03:01, 04:02, 06:02 DQA1*01:01, 03:01, 04:01															
232 L	None	No	NC16	DQA1*03, 05, 06 DPB1*02, 03, 06, 09, 10, 14, 17, 18, 20, 28 DPA1*01, 02, 03, 04	LS2A01	1200	7328	16											
235 L	DTT	No	54424	DRB5*01:01	LS2PRA	1000	11076	34											
238 L	None	No	153	NT	LSAII	500	15889	153											
242 NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
245 L	EDTA	No		DQA1*03:02 DP1, 2, 3, *04:02, 6, 9, 10, 14, 17, 18, 20, 28	LS2A01	1000/500	9221	32											
252 262 L	None	No	151	DPB1*02, 03, 04:02, 14, 17, LSAII 18, 28		AD BCR>5	20631	146											
267 L	None	No		DPB1*02:01, 03:01, 04:02, LSAII 13:01, 14:01, 17:01, 18:01, 28:01		BCM>700	21314	294											
268 C+L 273 L	None None	No No		DRB1*09:1 DQA1*02:01, 03:02 DP1, 2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28 DPB1*01:01, 04:02 DPA1*01:03 DRB1*11:01, 11:04	LSAII LS2A01	1500 1175	15874 9442	151 21	LM2	1000	21875	73/463/315							
277 L	EDTA	No		DPB1*02:01, 03:01, 04:02, 06:01, 09:01, 10:01, 14:01, 17:01, 18:01, 20:01, 28:01 DPA1*01:05	LS2A01	500	10041	20											
284 L	EDTA	No		DQA1*03:02 DPB1*02:01, 03:01, 04:02, 06:01, 09:01, 14:01, 17:01, 18:01, 20:01, 28:01	LS2A01	>1000	9375.5	30.38	LSM12	>3	9180	35							

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292 L	EDTA	No	66531	DRB1*09:01 DQA1*03:02, 05:03, 05:05, 06:01 DP1, 2, 3, 6, 9, 10, 14, 17, 18, 20, 28 DPA1*01:04, 01:05 DP2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28	LSZA01	500	10350	33	LSM12	2.5	12688	42
293 L	None	No		DRB1*02:01, 03:01, 04:02, 14:01, 17:01, 18:01, 28:01	LSZA01	500	4909	14	LS2PRA	500	4909	14
294 L	None	No		DPB1*02:01, 03:01, 04:02, 14:01, 17:01, 18:01, 28:01	LSAII		15728		LMX		17077	145/25
297 L	EDTA	No	LSNCOL	DPB1*02:01, 03:01, 04:02, 06:01, 09:01, 10:01, 14:01, 17:01, 18:01, 20:01, 28:01	LSZA01	1500	12679	18				
303 L	EDTA	No	016	DP2, 3, 4, 6, 9, 10, 14, 17, 18, 20, 28 DRB5*01:01 DPB1*02, 03, 04:02, 13, 14, 17, 18, 25	LSZA01 LSAII	1000 500	6874 19523	25 126				
309				DQA1*03:02 DP2, 3, 6, 9, 10, 14, 17, 18, 20 DPB1*04:02 DPA1*01:01, 01:03	LSZA01	1500	7768	45				
311 L	EDTA	No		DQA1*03:02 DP2, 3, 6, 9, 10, 14, 17, 18, 20 DPB1*04:02 DPA1*01:01, 01:03	LSZA01	2000	7622	13				
315 L	EDTA	No	LLSNC015	DQA1*03:02 DP2, 3, 6, 9, 10, 14, 17, 18, 20, 28	LSZA01	1000	8916	25				
323 L	EDA	No		DP2, 3, 6, 9, 10, 14, 17, 18, 20, 28 DPB1*02, 03, 04, 14, 17, 18	LSAII	>1500	9000	100	LSAI&II	>1500	9000	100
351 L	None	No		DPB1*02, 03, 04, 14, 17, 18	LSAII	>1500	9000	100	LSAI&II	>1500	9000	100

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 309/2016

DISPATCHED ON 28TH JUNE 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
Lab no																
9 L	None	No			LSZA01	500	9822	12.47								
11 L	None	No	NC16		LSZA01	1000	6768	14	LSM12	2.5	5828	14				
12 L	EDTA	No		DOB1*03:01 DQA1*05:03, 05:05 DPB1*01:01, 05:01, 06:01 DPA1*01:03, 02:02	LSZA01	1000	12622	28	LSM12	3	12116	20				
14 L	Heat inactivation, EDTA	No	016	DQA1*03:01, 04:01, 05:01 DOB1*02:01	LSZA01	1500	13115	11								
15 L	EDTA	No		DQA1*05:05	LSZA01	1000	12529	18.9								
19 L	None	No			LSZA01	100	12077	18								
20 C+L	EDTA	No	15	DRB1*15:01, 16:01	LSZA01	1000	12608	9								
23 L	EDTA	No	016	DQA1*05:03, 05:05	LSZA01	1000	9619	7.02								
24 L	EDTA	No	015	DRB1*09:02, 16:01	LSZA01	1000	11391	11	LSM12	4.5	9946	20	LSZPRA	1000	17653	53
25 L	EDTA	No	015		LSZA01	1000	12165	15	LSM12	6.1	14535	17.37	LSAII	1500	19204	139
26																
28 L	None	No	101207	DQA1*01:02, 05:03, 05:05 DOB1*03:01, 06:09 DPA1*01:03, 02:02 DPB1*01:01, 05:01	LSZA01	500	6980	14								
34 L	EDTA	No	NC15-011		LSZA01	712	12671	11								
35 L	EDTA	No		DRB3*01:01, 02:02, 03:01 DQA1*02:01, 03:01, 04:01, 05:01	LSZA01	1000	15915	13								
38 L	EDTA	No	015		LSZA01	1000	8155	10	LSAII	794	17048	152				
39 L	None	No	LSNC015	DQA1*05:03, 05:05 DP14	LSZA01	1500	12173	55								
41 L	None	No	15		LSZA01	2000	10887	13								
42 L	EDTA	No		DQA1*05:01, 05:03, 05:05	LSZA01	500	5772	18								
45 L	EDTA	No	16		LSZA01	1500	10188	21								
48 L	Heat inactivation	No	22		LSZA01	1500	10645	17								
51 L	EDTA	No			LSZA01	>850	12318	12	LSM12	>350						
54 L	EDTA	No	15		LSZA01	1000	12085	13	LSM12	3	8906	4	LSAII		14986	73
58 L	EDTA	No	015		LSZA01	1500	13447	13.51								
62 L	None	No	011-01	DRB1*09:02	LSZA01	854	18355	219								
100 L	None	No			LSAII	9529	12									
101 L	None	No			LSAII	>500	21133	194								
112 L	None	No			LSAII	9812	16									
114 L	EDTA	No	16		LSZA01	1000	8592	25	LSM12		7965	31				
116 C+L	EDTA	No	016	DQA1*05:01	LSZA01	500	12404	8								
117 E+L	None	No		DQA1*05:03, 05:05	LSZA01	>1000	10972	23	LSM12	>1.6	8812	16				
119 L	EDTA	No			LSZA01	500	8527	9								
120 L	EDTA	No			LSAII	16349	112									
133 L	None	No		DRB1*03:01, 03:02, 03:03, 07:01, 08:01, 09:01, 11:01, 11:04, 12:01, 13:01, 13:03, 14:01, 14:04, 15:01, 15:02, 16:01, 16:02 DOB1*02:01, 02:02 DRB3*01:01, 02:02, 03:01	LSAII											
136 L	None	No		DQA1*05:01	LSZA01	1000	13633	14								
139 L	EDTA	N	LSCN16	DRB1*16:01	LSZA01	1000	8945	11	LSM12	4	9699	13				
142 L	EDTA	No		DRB1*09:02	LSZA01	1000	10292	10								
143 L	None	No	015		LSZA01	1000	7115	18								
145 L	None	No	NC15		LSZA01	1000	9627	16	LSM12	1.5/1.2	8620	81				
147 L	None	No		DRB1*09:02	LSZA01	1000	9647	16	LSM12	>5	9250	19				
149 L	None	No														
157 L	EDTA	No	15	DQA1*05:01	LSZA01	1000	11149	17								
159 L	None	No	15		LSZA01	1500	10344	12								
160 L	Adsorption beads	No	14		LSZA01	500	7400	11								
162 L	EDTA	No		DQA1*05:03, 05:05	LSZA01	1000	17339	25	LSM12	3	7948	20				
163 L	EDTA	No			LSZA01	1500	9276	7								
164 L	None	No		DRB1*09:02 DQA1*05:01	LSZA01	1500	9124	38								
165																
169 L	None	No		DOB1*06:02, 06:04, 06:09 DQA1*01:01, 01:02, 05:01, 05:03, 05:05 DPA1*01:01, 06:01, 11:01, 13:01	LSZA01	1000	13229	144								
181 L	EDTA	No	82521		LSZA01	500	8346	19								
185 L	None	No			LSAII	18310	107		LM2		18887	21	LMX			
186 L	None	No			LSZA01	1000	9652	22	LSAII	1000	48596	136				
190 L	EDTA	No			LSZA01	1000	8819	17								
193 L	EDTA	No			LSZA01	1000	9454	7								
194 L	DTT	No			LSZA01											
195 L	None	No			LSZA01	1400	13900	716								
197 L																
204 L	EDTA	No	15	DQA1*05	LSZA01	1000	6916	12								
206	EDTA	No	16		LSZA01	1000	8405	14								
209				DOB1*06:09 DQA1*05	LSZA01	500	13692	13								

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214 L	None	Yes		DOB1*02:01, 02:02 DRB1*03:01, 03:02, 03:03, 07:01, 08:01, 09:01, 11:01, 11:04, 12:01, 13:01, 13:03, 14:01, 14:04, 15:01, 15:02, 16:01, 16:02 DRB3*01:01, 02:02, 03:01	LSAI&II	500	17708	175									
218 L	Heat inactivation	No		DOB1*02:01, 02:02 DRB1*03:01, 03:02, 03:03, 07:01, 08:01, 09:01, 11:01, 11:04, 12:01, 13:01, 13:03, 14:01, 14:04, 15:01, 15:02, 16:01, 16:02 DRB3*01:01, 02:02, 03:04	LSAII		18224										
227 L 229 F	Dilution, EDTA None	No		DRB1*03:01, 03:02, 07:01, 08:01, 09:01, 11:01, 12:01, 12:02, 13:01, 13:03, 14:01, 15:01, 15:02, 16:01 DRB3*02:02 DOB1*02:01, 06:02													
232 L	None	No	NC16	DQA1*02, 03, 04, 05	LSZA01	1200	6774	5									
235 L	DTT	No	54424		LSZPRA	1000	11708	19									
238 L	None	No	171		LSAII	500	16836	171									
242 NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
245 L	EDTA				LSZA01	1000/500	4844	12									
252																	
262 L	None	No	151		LSAII	AD BCR>5	20244	184									
267 L	None	No		DOB1*06:04	LSAII	BCM>700	19163	264									
268 C+L	None	No			LSAII	1500	15854	184	LM2	1000	17956	68/146/78					
273 L	None	No		DRB1*09:02 DOB1*02:01 DQA1*04:01, 05:01 DQA1*05:03, 05:05, 06:09	LSZA01	1503	9246	12									
277 L	EDTA	No			LSZA01	500	9804	12									
284 L	EDTA	No			LSZA01	>1000	9451.6	15	LSM12	>3	8750	18					
292 L	EDTA	No	66531	DOB1*06:09 DQA1*05:01, 05:03, 05:05	LSZA01	500	9160	35	LSM12	2.5	10534	17					
293 L	None	No			LSZA01	500	5261	8	LSZPRA	500	5261	8					
294 L	None	No			LSAII		16564		LMX		16120	38/94					
297 L	EDTA	No	LSNCOL		LSZA01	1500	10716	23									
303 L	EDTA	No	016		LSZA01	1000	7323	13									
309 L	None	No			LSAII	500	19205	94									
311 L	EDTA	No			LSZA01	1500	9351	21									
315 L	EDTA	No	LSNC015		LSZA01	2000	7158	5									
323 L	EDTA	No		DQA1*05:01	LSZA01	1000	8647	8									
351 L	None	No			LSAII	>1500	9000	100	LSAI&II	>1500	9000	100					

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 310/2016

DISPATCHED ON 28TH JUNE 2016

Techniques used IgG	Sample Treatment IgG	High Background	Neg control serum batch	Allele Specific Antibodies IgG	Luminex kit (lot)	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative	Luminex kit (lot)	Cut-off value IgG	Control bead MFI Positive	Control bead MFI Negative
9 L	None	No		DQA1*04:01, 05, 06:01	LS2A01	1000	8826	25.48								
11 L	None	No	NC16	DQA 04, 05, 06	LS2A01	1000	6136	37	LSM12	2.5	5545	10				
12 L	EDTA	No	16	DOB1*03:01, 04:02	LS2A01	1000	10170	78	LSM12	3	10810	40				
14 L	Heat inactivation, EDTA	No	016	DQA1*04:01, 05, 06 DQA1*04:01, 05:01, 05:05, 06:01	LS2A01	1500	11935	24								
15 L		No		DOB1*03:01, 04:02 DOB1*06:03, 06:09 DQA1*04:01, 05:03, 05:05, 06:01												
19 L	None	No		DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	1000	11817	54								
20 C+L	EDTA	No	15	DOB1*04:02	LS2A01	1000	10476	47								
23				DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	1000	7135	5.84								
24 L	EDTA	No	015	DQA1*04:01, 05, 06	LS2A01	1000	11513	18	LSM12	4.5	9606	34	LS2PRA	1000	15190	92
25 L	EDTA	No	015	DOB1*03:01, 03:03, 04 DQA1*04:01, 05:01, 05:03, 05:05, 06:01	LS2A01	1000	10572	16	LSM12	6.1	12673	20.97	LSAII	1500	19414	113
26 L	EDTA															
28 L	None	No	101207	DQA1*01:02, 01:03, 04:01 DOB1*04:02, 06:03, 06:09 DQA1*05:03, 05:05, 06:01	LS2A01	500	5277	30								
34 L	EDTA	No	NC15-011	DRB1*04:02 DOB1*06:03, 06:09 DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	1000	12588	26								
35 L	EDTA	No		DRB3*01:01, 02:02, 03:01 DQA1*02:01, 03:01, 04:01, 05:01, 05:03, 05:05, 06:01	LS2A01	1000	16436	26								
38 L	EDTA															
39 L	None	No	LSNC015	DQA1*04, 05, 06 DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	1100	8450 12825	25 39	LSAII	740	16845	102				
41 L	None	No	15	DQA1*05:03, 05:05, 06:01	LS2A01	2000	9831	18								
42 L	EDTA	No		DOB1*06:03, 06:09 DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	500	7633	36								
45 L	EDTA	No	16	DQA1*04, 05, 06	LS2A01	1500	8254	40								
48 L	Heat inactivation	No	22	DQA1*04:01, 05:03, 05:05, 06:01												
51 L	EDTA	No		DQA1*04, 05, 06	LS2A01	2500	13954	111								
54 L	EDTA	No	15	DQA1*04	LS2A01	>850	8906	96	LSM12	>350						
58 L	EDTA	No	015	DQA1*04, 05, 06	LS2A01	1000	7539	26	LSM12	3	2931	4	LSAII		15896	86
62 L	None	No	011-01	DQA1*04, 05, 06	LS2A01	1500	11537	20.5								
100 L	None	No		DQA1*04, 05, 06	LSAII	1014	18198	275								
101 L	None	No		DQA1*04	LS2A01		9166	18								
112 L	None	No		DQA1*04:01, 05:01, 06:01	LSAII	>500	20494	186								
114 L	EDTA			DQA1*04:01, 05:01, 05:03, 05:05, 06:01	LS2A01	1000	8849	22								
116 C+L	EDTA	No	16	DQA1*04:01	LS2A01	1000	7902	53	LSM12		7745	81				
117 E+L	None	No	016	DQA1*04:01, 05:01, 05:03, 05:05, 06:01	LS2A01	500	10975	18								
119 L	EDTA	No	016	DQA1*04:01	LS2A01	>1000	9693	40	LSM12	>1.6	6418	15				
120 L	EDTA	No		DQA1*04:01 DOB1*06:03, 06:09	LS2A01	500	7845	13								
133 L	None	No		DRB1*03:01, 03:02, 03:03, 07:01, 08:01, 09:01, 11:01, 11:04, 12:01, 13:01, 13:03, 14:01, 14:04, 15:01, 15:02, 16:01 DOB1*02:01, 02:02 DRB3*01:01, 02:02, 03:01 DQA1*04:01, 05:01, 06:01	LSAII		14953	121								
136 L	None	No		DQA1*01:02 DOB1*06:09 DQA1*04:01, 05:01, 05:03, 05:05, 06:01	LS2A01	1000	12568	30								
139 L	EDTA	No	LSCN16	DQA1*04:01, 05, 06	LS2A01	1000	9431	21	LSM12	4	8915	25				
142 L	EDTA	No		DOB1*03:01, 04:02 DQA1*04:01, 05:03, 05:05, 06:01 DQA1*05:01, 05:03, 05:05, 06:01 DOB1*02:01, 03:01	LS2A01	1000	8589	21								
143 L	None	No	015	DQA04, 05	LS2A01	1000	6042	47								
145 L	None	No	NC15	DQA1*04:01, 05:03, 05:05, 06:01	LS2A01	1000	9450	51	LSM12	1.5/1.2	8255	155				
147 L	EDTA	No		DOB1*04:02 DQA1*04:01, 05:01, 05:03, 05:05, 06:01	LS2A01	1000	8072	61	LSM12	5	8678	40				

