

UK NEQAS for H&I Educational Scheme

METHODOLOGY

DESPATCHED ON 22 MAY 2018

SAMPLE ED 01/2018

Lab No.	Date received	Date tested	Method used *									Source of Primers and Probes			Kit manufacturer	Detection Method	DNA Extraction Method
			HLA-A	HLA-B	HLA-C	DRB1	DRB3,4,5	DQA1	DQB1	DPA1	DPB1	Commercial Kits	In-house	Other			
9	23/05/2018	29/05/2018	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	LUM	LUM	SBT/LUM			YES		One Lambda	Fluorescence	Automated- QIAGEN EZ1	
12	23-May	04-Jun	NGS	NGS	NGS	NGS	NGS		NGS	NGS	NGS	YES		Illumina TruSight HLA v2	Fluorescence	Provided with DNA	
14	23-May	24-May	PCR-SSOP /LUM	PCR-SSOP /LUM	PCR-SSOP /LUM	PCR-SSOP /LUM	PCR-SSOP /LUM	PCR-SSOP /LUM	PCR-SSOP /LUM	PCR-SSOP /LUM	PCR-SSOP /LUM	YES		One Lambda	Fluorescence	Automated-MAXWELL	
15	23-May	24-May	LUM	SBT/LUM	SBT/LUM	LUM	LUM	LUM	LUM	LUM			Own Design	IMMUCOR	Gel/Fluorescence	Automated- ROCHE	
20	23-May	25-May	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	LUM	SBT/LUM	SBT/LUM	LUM	SBT/LUM	YES		IMMOCORE		Manual- Puregene	
23	23-May	01-Jun															
24	23-May	29-May	LUM	SBT/LUM	SBT/LUM	LUM	LUM	LUM	LUM			YES		IMMUCOR AND GenDx	Fluorescence	Automated- EZ1 Advanced XL DNA	
26	30-May	30-May															
28	23-May	29-May															
29	24-May	25-May		SBT	PCR-SSP/ SBT									One Lambda and Gel Olerup		Automated- Qiagen EZ1 DNA	
38	23-May	25-May	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	YES		OL LABType and TRUSIGHT HLA V2	Fluorescence	Automated- Quiagen EZ1 Advanced	
39	23-May	25-May	LUM	LUM/GBT	LUM/GBT	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS			YES			Fluorescence	Automated- MagnApure	
41			NGS	NGS	NGS	NGS		NGS	NGS		PCR-SSP/ NGS	YES		OMIXON /ILLUMINA	Fluorescence		
42	23-May	25-May	LUM	LUM/NGS	LUM/NGS	LUM		LUM	LUM			YES		One Lambda/ GenDx NGS go	Fluorescence	Illumina Miseq platform	
48	24-May	06-Jun	PCR-SSP/SBT	PCR-SSP/SBT	PCR-SSP/SBT	PCR-SSP/SBT		PCR-SSP	PCR-SSP/SBT				Own Design		Gel	Automated- Maxwell 16	
58	23-May	29-May															
62	23-May	23-May	SBT/NGS	SBT/NGS	SBT/NGS	SBT			SBT/NGS	NGS	SBT		YES				
														SECORE- One Lambda/ Pacific Biosciences			
112	22-May	08-Jun															
113			LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	PCR-SSP/NGS		LUM/NGS			YES		GenDX-One Lambda-Olerup	Gel/Fluorescence/ Illumina MiSeq	Automated- geno-M6	
128	24-May	05-Jun															
130	23-May	24-May	NGS	NGS	NGS	NGS			NGS			YES		GenDx			
132																	
133	25-May	31-May															
136	22-May		LUM	LUM	LUM	LUM		LUM	LUM	LUM	LUM	YES					
142	23-May	25-May	PCR-SSP	PCR-SSP	PCR-SSP	PCR-SSP	PCR-SSP	PCR-SSP	PCR-SSP	PCR-SSP	PCR-SSP			Linkage			
147	26-May	28-May	NGS	PCR-SSP/SBT/ NGS	NGS	NGS		NGS	NGS	NGS	NGS	YES	Own Design		Gel/Fluorescence	Automated	
156	28-May	05-Jun	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	YES		GenDx Olerup/One Lambda	Gel		
178	25-May	07-Jun	LUM	LUM	PCR-SSP /LUM	PCR-SSP			PCR-SSP			YES					
181	23-May	01-Jun	NGS	NGS	NGS	NGS	NGS	NGS	NGS		NGS	YES		GenDx Omixon			
194	23-May	02-Jun	NGS	NGS	NGS	NGS		NGS	NGS		NGS	YES					
195	25-May	29-May															
220	24-May	30-May	PCR-SSOP	PCR-SSOP/NG	LUM/NGS	PCR-SSOP/sbt	PCR-SSOP		PCR-SSOP			YES	YES	One Lambda			
229	24-May	01-Jun															
238	23-May	04-Jun	NGS	NGS	NGS	NGS	NGS	NGS	NGS		NGS	YES		Omixon			
245	23-May	29-May	NGS	NGS	NGS	NGS		NGS	NGS		NGS	YES		IMMUCOR			
260	24-May	29-May	LUM	LUM	LUM	LUM		LUM	LUM			YES		LIFE CODES			
262	23-May	29-May															
284	23/05/2018	30/05/2018															
292	25/05/2018	28/05/2018															
315	24/05/2018	29/05/2018	PCR-SSP	PCR-SSP	PCR-SSP	PCR-SSP		PCR-SSP	PCR-SSP	PCR-SSP	PCR-SSP	YES		INNO TRAIN	Fluorescence		

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UK NEQAS for H&I Educational Scheme

CLASS I DNA TYPING RESULTS

DESPATCHED ON 22 MAY 2018

SAMPLE ED 01/2018

Lab No.	HLA-A*	A*	B*	B*	C*	C*
9			51:17	52:01		
12	03:01	68:01	51:17:00	52:01:00	04:01	12:02
14	03	68	51	52	04	12
15	03	68	51:17	52:01/52:07/52:36	04	12
20	NT	NT	51:17	52:01/52:53	NT	NT
23	03	68	51	52	04	12
24	03	68	51:17	52:01	04	12
26	03:01	68:01	51:17	52:01/53	04:01/82/226/275	12:02
28	NT	NT	51:01/51:03-51:224	52:01/52:04-52:69	04:01/04:05-04:278	12:02/12:10-12:214
29			51:17	52:01/52:53		
38	03:01	68:01	51:17	52:01	04:01	12:02
39	03	68	51:17	52:01	04	12
41	03:01:01:01	68:01:01:02	51:17	52:01:01:01/02	04:01:01:01/11	12:02:02:01/02
42	03	68	51:17	52:01:01:01	04	12
48	03	68	51:17	52:01	04	12:02/08+
58	03	68	51	52	04	12
62	03:01:01:01	68:01:01:02	52:01:01:01	51:17	04:01:01	12:02:02:01
112	03	68	51	52	NT	NT
113	03:01:01	68:01:01	51:17	52:01:01	04:01:01	12:02:02
128	03	68	51	52	04	12
130	03:01:01:01	68:01:01:02	51:17	52:01:01:01	04:01:01	12:02:02:01
133	03:01:01	68:01:01	51:17	52:01:01	04:01:01	12:02:02
136	03:01	68:01	51:01	52:01	04:01	12:01
142	03	68	51:17	52:01	04	12
147	NT	NT	51:17	52:01:01/52:53	NT	NT
156	03:01:01	68:01:01	51:17	52:01:01	04:01:01	12:02:02
178	03	68	51:17	52:01	04	12
181	03:01	68:01	51:17	52:01	04:01	12:02
194	03:01	68:01	51:17	52:01	04:01	12:02
195	03	68	51	52	04	12
220	03	68	51:17	52:01:01:01	04	12
229	03	68	51	52	04	12
238	03:01	68:01	51:17	52:01	04:01	12:02
245	01:01	03:01	27:05	44:02	01:127	05:01
260	03	68	51	52	04	12
262	03:01	68:01	51:17	52:01	04:01	12:02
284	03	68	51:17	52:01:01	04	12
	03	68	51/53	52	04	12
292						
315	03:01	68:01	51:01	52:01	04:01	12:02

We only performed low resolution typing, B locus was ambiguous: B*52, B*51 / B*53. DRB1 locus was only ambiguous DRB1*11, DRB1*11/DRB1*13

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UK NEQAS for H&I Educational Scheme

CLASS II DNA TYPING RESULTS

DESPATCHED ON 22 MAY 2018

SAMPLE ED 01/2018

Lab No.	HLA-DRB1*	DRB1*	DRB3/4/5*	DRB3/4/5*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Comments
9													
12	11:01	11:04	02:02	X	NT	NT	03:01	X	01:03	02:01	04:01	09:01	The presence of an X indicates a genotypic blank.
14	11	11	02		05		03:01		01	02	04:01	09	
15	11		02		05		03:01/03:16/03:19						
20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
23	11	02			05		03:01						DP testing failed- need repeating- results can follow
24	11	11	02		05		03:01						Indicates allele string- most common allele indicated
26	11:01	11:04					03:01						ED02/2018- unable to exclude HLA-DRB1*04:08, *04:13 combination due to cis-trans ambiguity
28	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Not enough DNA to do SSP.
29													
38	11:01	11:04	02:02		05:05	05:09	03:01		01:03	02:01	04:01	09:01	
39	11		02		05		03:01/19/21/X						
41	11:01:01	11:04:01	NT	NT	05:05:01:01	05:09	03:01:01:03	03:01:01:03	NT	NT	04:01:01:01	09:01:01	
42	11	11	NT	NT	05	05	03	03	NT	NT	NT	NT	
48	11		02/03		NT	NT	03:01/04+		NT	NT	NT	NT	results delayed due to problem with sequence capillary array
58	11		02		05		03		01	02	04	09	
62	11:01:01	11:04:01					03:01:01				04:01:01	09:01:01	
112	11				NT	NT	NT	NT	NT	NT	NT	NT	
113	11:01:01	11:04:01	02:02:01		NT	NT	03:01:01		NT	NT	NT	NT	
128	11	11			05		03						
130	11:01:01	11:04:01					03:01:01						
133	11:01:01	11:04:01					03:01:01				04:01:01	09:01:01	
136	11:01	11:04			05		03:01	03:01	01:03	02:01	04:01	09:01	
142	11	11	02		05		03:01		01	02	04:01	09	
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Please note that samples were received Saturday 26/05/2018 instead of 23/05/2018. Time to perform test considerably reduced.
156	11:01:01	11:04:01	02:02:01		05:05:01	05:09	03:01:01		01:03:01	02:01:01	04:01:01	09:01:01	
178	11		NT	NT	NT	NT	03:01		NT	NT	NT	NT	In sample ED02 by using PCR-SSP OLERUP kits C*05-Lot No OE3 and HLA C*01-Lot No 2E2 we did not detect in HLA C locus any interesting alleles
181	11:01	11:04	02:02		05:05	05:09	03:01				04:01	09:01	
194	11:01	11:04			05:05	05:09	03:01				04:01	09:01	
195	11	11	NT	NT	05	05	03	03	01	02	04	09	
220	11:01	11:04	02				03						
229	11	11	NT	NT	05	05	03	03	NT	NT	NT	NT	
238	11:01	11:04	02		05:05	05:09	03:01				04:01	09:01	
245	04:01	04:04					03:01	03:02			04:01		
260	11				5		3						
262	11:01	11:04	NT	NT	05:05	05:09	03:01		NT	NT	04:01	09:01	
284	11	11			05		03						
292			NT	NT	05		03		NT	NT	NT	NT	We only performed low resolution typing, B locus was ambiguous: B*52, B*51 / B*53. DRB1 locus was only ambiguous DRB1*11, DRB1*11/DRB1*13
315	11:01	11:01			05:01	05:01	03:01	03:01	01:03	02:01	04:01	09:01	

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