

**UK NEQAS for H&I Educational Scheme**

METHODOLOGY

DESPATCHED ON 22 MAY 2018

SAMPLE ED 02/2018

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	SBT		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 Automated-MAXWELL		
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	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		
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-Qiagen EZ1 Advanced		
39	23-May	25-May	LUM	LUM/ SBT	LUM/ SBT	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				
133	25-May	31-May																
136	22-May	25-May	LUM	LUM	LUM	LUM	PCR-SSP	LUM	LUM	LUM	LUM	YES		Linkage				
142	23-May	25-May	PCR-SSP/ NGS	PCR-SSP/ NGS	PCR-SSP/ NGS	PCR-SSP/ NGS	PCR-SSP/ NGS	PCR-SSP/ NGS	PCR-SSP/ NGS	PCR-SSP/ NGS	PCR-SSP/ NGS	YES	Own Design		Gel/Fluorescence	Automated		
147	26-May	28-May	PCR-SSP/ SBT/ NGS	PCR-SSP/ SBT/ NGS	PCR-SSP/ SBT/ NGS	PCR-SSP/ SBT/ NGS	PCR-SSP/ SBT/ NGS	PCR-SSP/ SBT/ NGS	PCR-SSP/ SBT/ NGS	PCR-SSP/ SBT/ NGS	PCR-SSP/ SBT/ NGS	YES						
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				
194	23-May	02-Jun	NGS	NGS	NGS	NGS	NGS	NGS	NGS		NGS	YES		Omixon				
195	25-May	28-May																
220	24-May	30-May	PCR-SSOP	PCR-SSOP/NG	LUM/NGS	PCR-SSOP/sbt	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		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 02/2018

Lab No.	HLA-A*	A*	B*	B*	C*	C*
9					01:02:34/12/12 7	05:01/59/145
12	01:01	03:01	27:05	44:02	01:127	05:01
14	01	03	27	44	01	05
15	01	03	27	44	01:02/01:11/01 :25	05:01/05:145/0 5:153N
20	NT	NT	NT	NT	01:127	05:01
23	01	03	27	44	01	05
24	01	03	27	44	01:127	05:01
26	01:01	03:01	27:05/162	44:02/02S	01:127	05:01
28	NT	NT	27:03/27:05- 27:162	44:02/44:025- 44:270	01:02/01:03- 01:145N	05:01/05:03- 05:154N
29					01:02/01:85/01 :127	05:01/05:145
38	01:01	03:01	27:05	44:02	01:127	05:01
39	01	03	27	44	01:127	05:01
41	01:01:01:01	03:01:01:01	27:05:02:01/05	44:02:01:01	01:127	05:01:01:02
42	01	03	27	44	01:127	05:01:01:02
48	01	03	27	44	01:120/127	05:01/16
58	01	03	27	44	01	05
62	01:01:01:01	03:01:01:01	44:02:01:01	27:05:02	01:127	05:01:01:02
112	01	03	27	44	01	05
113	01:01:01	03:01:01	27:05:02	44:02:01	01:127	05:01:01
128	01	03	27	44:02/27	01	05
130	01:01:01:01	03:01:01:01	27:05:02	44:02:01:01	01:127	05:01:01:02
133	01:01:01	03:01:01	27:05:02	44:02:01	01:127	05:01:01
136	01:01	03:01	27:03/05	44:02	1:02	05:01
142	01	03	27	44	01:127	05:01
147	01:01	03:01	27:05	44:02	01:127	05:01
156	01:01:01	03:01:01	27:05:02	44:02:01	01:127	05:01:01
178	01	03	27	44	01:02	05:01
181	01:01	03:01	27:05	44:02	01:127	05:01
194	01:01	03:01	27:05	44:02	01:127	05:01
195	01	03	27	44	01	05
220	01	03	27	44	01:127	05:01:01:02
229	01	03	27	44	01	05
238	01:01	03:01	27:05	44:02	01:127	05:01
245	03:01	68:01	51:17	52:01	04:01	12:02
260	01	03	27	44	01	05
262	01:01	03:01	27:05	44:02	01:127	05:01
284	01	03	27	44	01:02:01	05:01:01
292	01	03			01	05
315	01:01	03:01	27:02:00	44	01:02	05:01

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UK NEQAS for H+I is provided from the Welsh Blood Service, a division of Velindre NHS Trust

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Effective Date 15/03/16

**UK NEQAS for H&I Educational Scheme**

CLASS II DNA TYPING RESULTS

DESPATCHED ON 22 MAY 2018

SAMPLE ED 02/2018

Lab No.	HLA-DRB1*	DRB1*	DRB3/4/5*	DRB3/4/5*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Comments
9													
12	04:01	04:04	X	01:03	NT	NT	03:01	03:02	01:03	X	04:01	X	The presence of an X indicates a genotypic blank.
14	04	04	01		03		03:01	03:02	01		04:01		
15			01		03		03:01/03:04/03	03:02/03:19/03					
20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
23	04		01		03		03:01	03:02					DP testing failed- need repeating- results can follow
24	04	04	01		03		03:01	03:02					Indicates allele string- most common allele indicated
26	04:01	04:04					03:01	03:02					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	04:01	04:04		01:03	03:01	03:03	03:01	03:02	01:03		04:01		Converted to HLA specificity nomenclature from SSO genotype results
39	04		01		03		03:01/19/21/22	03:02/32/45/X	NT	NT	NT	NT	
41	04:01:01	04:04:01	NT	NT	03:01:01	03:03:01:01	03:01:01:01/10	03:02:01:02	NT	NT	04:01:01:04/05	04:01:01:05/15	
42	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT	
48	04		01		NT	NT	03:01/04+	03:02/05+	NT	NT	NT	NT	results delayed due to problem with sequence capillary array
58	04		01		03		03		01		04		
62	04:01:01	04:04:01					03:01:01	03:02:01			04:01:01		
112	04				NT	NT	NT	NT	NT	NT	NT	NT	
113	04:01:01	04:04:01	01:03:01		NT	NT	03:01:01	03:02:01G	NT	NT	NT	NT	
128	04	04			03	03	03	03					
130	04:01:01	04:04:01					03:01:01	03:02					
133	04:01:01	04:04:01					03:01:01	03:02			04:01:01		
136	04:01	04:4			03:01		03:01	03:02	01:03	01:03	04:01	04:01	
142	04		01		03		03:01	03:02	01		04:01		
147	04:01	04:04	NT	NT			03:01	03:02			04:01		Please note that samples were received Saturday 26/05/2018 instead of 23/05/2018. Time to perform test considerably reduced.
156	04:01:01	04:04:01	01:01	NT	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01		04:01:01	NT	
178							03:01	03:02	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	04:01	04:04	01:03		03:01	03:03	03:01	03:02			04:01		
194	04:01	04:04			03:01	03:03	03:01	03:02			04:01		
195	04	04	NT	NT	03	03	03	03	01	01	04	04	
220			01					03					
229	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT	
238	04:01	04:04			03:01	03:03	03:01	03:02			04:01		
245	11:01	11:04					03:01				04:01	09:01	
260	04				03		03						
262	04:01	04:04	NT	NT	03:01	03:03	03:01	03:02	NT	NT	04:01		
284	04	04	03		03	03	03	03	NT	NT	NT	NT	
292	04		NT	NT	03	03	03	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	04	04			03	03	03:01	03:02	01:03	01:03	04:01	04:01	

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