

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd Field Resolution

SAMPLES 4A2 01-05/2017 DISPATCHED ON 07TH MARCH 2017

METHODS: SBT = Sanger Based Typing, LUM = Luminex, NGS = Next Generation Sequencing, TGS = Third Generation Sequencing

Lab No.	Date received	Date tested	Method used	HLA-							IMGT/HLA allele database release	Primers and Probes			Kit manufacturer	Detection method	Comments
				A	B	C	DRB1	DRB3.4.5	DQA1	DOB1		DPA1	DPB1	Commercial			
9			SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SSP/LUM						Yes		One Lambda	Gel, Fluorescence	
11			NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	3.26.00	Yes	Yes	Illumina	Fluorescence		
12			SBT	SBT	SBT	SBT						Yes	Yes	Immucor, Linkage Bioscience	Gel, Fluorescence		
15			SBT/LUM/RT-PCR	SBT/LUM/RT-PCR	SBT/LUM/RT-PCR	SBT/LUM/RT-PCR					3.23	Yes	Yes		Gel, Fluorescence		
19	07-Mar	20-Mar	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP	SSP/SSOP	SSP/SSOP	SSP/SSOP	3.22	Yes	Yes		Gel, Fluorescence		
20	09-Mar	27-Jul	NGS	NGS	NGS	LUM/NGS	NGS	LUM/NGS	LUM/NGS	LUM/NGS		Yes	Yes	One Lambda, Immumina	Gel, Fluorescence		
23	08-Mar	10-Mar	SBT	SBT	SBT	LUM/SSOP		LUM/SSOP	LUM/SSOP	LUM/SSOP		Yes	Yes	Polerup, GenDx, Immucor	Gel, Fluorescence		
24			LUM/SSOP	LUM/SSOP	LUM/SSOP	LUM/SSOP		LUM/SSOP	LUM/SSOP	LUM/SSOP		Yes	Yes	Immucor	Gel, Fluorescence		
26			SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	3.22.0	Yes	Yes	One Lambda	Gel, Fluorescence		
28			SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/LUM	SSP/SBT	SSP/LUM	SSP/LUM		Yes	Yes	Olerup, One Lambda	Gel, Fluorescence		
29			SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/LUM	SSP/SBT	SSP/LUM	SSP/LUM		Yes	Yes	Olerup, Linkage, GenDx, One Lambda	Gel, Fluorescence		
34			SSOP/SBT/LUM	SSOP/SBT/LUM	SSOP/SBT/LUM	SSOP/SBT/LUM	SSP/SSOP/SBT/LUM	SSP/SSOP/LUM	SSOP/SBT/LUM	SSOP/LUM	3.24.0.1	Yes			Gel, Fluorescence		
35	08-Mar	09-28-Mar	SBT/LUM/NGS	SBT/LUM/NGS	SBT/LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	3.25 (SSP/SBT/LUM); 3.26 (NGS)	Yes		Conexio, One Lambda, Illumina	Fluorescence		
38			SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM		SSP	SBT/LUM	SSP		Yes	Yes	One Lambda, GenDx, One Lambda	Gel, Fluorescence		
39			NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	3.24	Yes	Yes	Omixon	Fluorescence		
41			SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM		Yes		One Lambda, GenDx	Fluorescence		
42			SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP	SSP/SBT	SSP	3.23	Yes	Yes		Gel, Fluorescence		
45			SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SSP/SBT	SSP	SBT/LUM	SSP	3.25	Yes		One Lambda, Life Technologies, Immucor	Gel, Fluorescence		
48			SSP/SBT/NGS	SSP/SBT/NGS	SSP/SBT/NGS	SSP/SBT/NGS	SSP/LUM/SSOP		SSP/SBT/NGS	SSP/SBT/NGS		Yes	Yes	Lifetech, Pacific Biosciences	Gel, Fluorescence		
51	08-Mar	08-Mar	SBT	SBT	SSP/SBT	LUM/SSOP	SSP	LUM	LUM/SSOP	LUM		Yes		Bionobis, One Lambda, Protrans	Fluorescence		
62	08-Mar	22-Mar	LUM	LUM								Yes		One Lambda	Gel, Fluorescence		
101	10-Mar	28-Mar	SSP, LUM, NGS	SSP, LUM, NGS	SSP, LUM, NGS	SSP, LUM, NGS	SSP, LUM, NGS		SSP, LUM, NGS	SSP, LUM, NGS	3.26	Yes		Olerup, One Lambda, GenDx	Gel, Fluorescence		
112	08-Mar	10-Mar	SSP/LUM/SSOP	SSP/LUM/SSOP	SSP/SBT	SSP/LUM/SSOP		SSP/LUM	SSP/LUM	SSP		Yes		Olerup, Invitrogen, One Lambda	Gel, Fluorescence		
113	09-Mar	16-Mar	SBT	SBT	SBT	SBT	SSP	SSP	SBT	SSP		Yes		One Lambda, GenDx	Gel, Fluorescence		
115	13-Mar	21-Mar	SSP/SBT	SSP/SBT	SSP	SSP/SBT	SSP	SSP	SSP/SBT	SSP		Yes		Olerup, Conexio	Gel, Fluorescence		
119	08-Mar	09-Mar	SBT/NGS	SBT/NGS	SBT/NGS	SBT/NGS	SBT/NGS	SBT/NGS	SBT/NGS	SBT/NGS		Yes		GenDx, PacBio	Gel, Fluorescence		
126	08-Mar	12-Mar	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS		Yes		Olerup, Immumina	Gel, Fluorescence		
130	08-Mar	17-Mar	SSP/SBT/NGS	SSP/SBT/NGS	SSP/SBT/NGS	SSP/SBT/NGS			SSP/SBT/NGS			Yes		Olerup, GenDx	Gel, Fluorescence		
132	09-Mar	20-Mar	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM		SSP/LUM	SSP/LUM	SSP/LUM		Yes		Olerup, One Lambda	Gel		
133			SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP	SSP/LUM	SSP/LUM	SSP		Yes		Protrans, O.L., Unitray, Olerup, Invitrogen, One Lambda, Immucor	Gel		
141	14-Mar	14-Mar	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	NGS		LUM/NGS	NGS		Yes			Fluorescence		
142	03-Mar	27-Mar	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	3.25.0	Yes		GenDx	Fluorescence		
145			SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP	SSP/NGS	SSP		Yes		Olerup, Holotype Omoixon	Gel, Fluorescence		
147			SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP		Yes		Genovision, Olerup, Invitrogen, Gold, Lifecodes, One Lambda	Gel		
150			SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM			SSP/LUM			Yes			Fluorescence		
156	08-Mar	13-Mar	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SBT		SBT/LUM	SBT	3.24.0.1	Yes			Fluorescence		
157	10-Mar	23-Mar															
158	09-Mar	17-Mar															
164	09-Mar	28-Mar					SSP/LUM		SSP/LUM			Yes		Olerup, Immucor	Gel		
165	08-Mar	15-Mar															
166	09-Mar	28-Mar															
167	08-Mar	20-Mar	SBT	SBT	SBT	SBT			SBT		3.7.0.2465	Yes		GenDx, Allele SEQR	Gel		
168	10-Mar	21-Mar															
178	03-Mar	09-Mar	SBT/LU	SSP/SBT/LUM	SSP/SBT/LUM	SBT/LUM	SSP	SSP/LUM	SBT/LUM	LUM	03:25	Yes		Olerup, Protrans, One Lambda	Gel		
185			SBT	SBT	SBT	SBT	SSP	SSP/LUM	SBT	SSP/LUM		Yes		Secore Express	Fluorescence		
190			SBT	SBT	SBT	SSP/LUM	SSP	SSP/LUM	SSP/LUM	SSP/LUM	3.26.0	Yes		Olerup, One Lambda	Gel, Fluorescence		
196			SBT	SBT	SBT	SBT	SSP	SSP/LUM	SBT	SSP/LUM	3.26.0	Yes			Fluorescence		
223			SBT	SBT	SBT	SBT	SSP	SSP/LUM	SBT	SSP/LUM	3.24.0	Yes			Fluorescence		
225			SBT	SBT	SBT	SBT	SSP	SSP/LUM	SBT	SSP/LUM	3.25.0	Yes			Fluorescence		
232	11-Mar	01-Mar															
242																	
245																	
248																	
259																	
260																	
267																	
268																	
273																	
304																	
312																	
321																	
328																	
332																	
351																	
367																	

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd Field Resolution

SAMPLE 4A2 01/2017 DISPATCHED ON 07TH MARCH 2017 ASSESSMENT

Consensus	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Consensus	
Acceptable	02:01	02:01/blank	44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03	01:03	03:01	03:02	06:03	01:03	01:03/Blank	02:01	04:01	Acceptable	
02:09/43N/66/75/83N/89/97/132/134/140/24 1/25/256/266/291/294/305N/327/329/356N 357/397/411/446/455/469/481/538/559			44:27/66			16:63/90		13:117/190	01:16	01:01/06/09			03:32/03:85	06:41/06:44			141:01/352:01/4 59:01/464:01/53	350:01/415:01/4 14:01/461:01	Acceptable	
Unacceptable Not Assessed	02:629/642/02:665		44:243				04:204	13:215	01:40N	01:07								4:01	Unacceptable Not Assessed	
Result Summary	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Number Unacceptable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Number NT																				

Reports above the 2nd field are not assessed
Only alleles included in IMGT release 3.23.0 assessed

Lab	A* 55	B* 55	C* 54	DRB1* 60	DRB3/4/5* 23	DQA1* 24	DPB1* 55	DPB1* 9	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	Comments
9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01		44:02	44:03	05:05	16:02/63	04:02	13:01	01:01	01:03				03:02	06:03			02:01	04:01	
11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03				03:02	06:03			02:01	04:01	
12	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03				03:02	06:03			02:01	04:01	
15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01/02:09/02:66		44:02/44:27/44:66	44:03	05:05	16:02/16:63/16:90	04:02	13:01/13:117/13:190	01:01	01:03				03:02/03:32/03:85	06:03/06:41/06:44	01:03		02:01	04:01	
19	Yes	Yes	Yes	Yes			Yes	Yes	02:01	02:01	44:02	44:03	05:05	16:02/16:90	04:02	13:01						03:02	06:03			02:01/141:01	04:01	
20	Yes	Yes	Yes	Yes			Yes	Yes	02:01		44:02	44:03	05:05	16:02/63	04:02	13:01/117/190						03:02	06:03			02:01/141:01/35 2:01/414:01/461 .01	04:01/350:01/41 5:01/459:01/464 .01	
23	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03				03:02	06:03	01:03		02:01	04:01	
24	Yes	Yes	Yes	Yes			Yes	Yes	02:01/01L		44:02	44:03	05:05	16:02	04:02	13:01						03:02	06:03			02:01	04:01	
26	Yes	Yes	Yes	Yes			Yes	Yes	02:01		44:02/02S	44:03	05:05	16:02/63/90	04:02	13:01						03:02	06:03			02:01	04:01	
28							Yes	Yes														01:03	03:01		01:03	02:01	04:01	
29	Yes	Yes	Yes	Yes			Yes	Yes	02:01		44:02	44:03	05:05	16:02/16:63	04:02	13:01						03:02	06:03			02:01	04:01	
34	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03				03:02	06:03	01:03		02:01	04:01	
35	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01		44:02:01	44:03:01	05:05	16:02:01	04:02:01	13:01:01	01:01:02	01:03:01				03:02:01	06:03:01			02:01	04:01:01	
38	Yes	Yes	Yes	Yes			Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01						03:02	06:03			02:01	04:01	
39	Yes	Yes	Yes	Yes			Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01						03:02	06:03			02:01	04:01	
41	Yes	Yes	Yes	Yes			Yes	Yes	02:01	02:01	44:02	44:03	05:05	16:02	04:02	13:01						03:02	06:03			02:01	04:01	
42	Yes	Yes	Yes	Yes			Yes	Yes	02:01/01L		44:02	44:03	05:05	16:02/63	04:02	13:01						03:02	06:03			02:01	04:01	
45	Yes	Yes	Yes	Yes			Yes	Yes	02:01:01		44:02	44:03:01	05:05	16:02:01/16:63	04:02:01	13:01/13:117/13:190	01:01/01:04	01:03				03:02:01	06:03:01			02:01/141:01/35 2:01/461:01	04:01/350:01/41 5:01/459:01/464 .01/534:01	
48	Yes	Yes	Yes	Yes			Yes	Yes	02:01		44:02	44:03	05:05	16:02/16:63	04:02	13:01						03:02	06:03			02:01	04:01	
51							Yes	Yes														01:03	03:01		01:03	02:01	04:01	
62	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01:01		44:02:01:01	44:03:01:01	05:05:01	16:02:01	04:02:01	13:01:01:01	01:01	01:03				03:02:01:01	06:03:01			02:01	04:01:01:01	
101	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03				03:02	06:03	01:03		02:01	04:01	
112	Yes	Yes	Yes	Yes			Yes	Yes	02:01/09		44:02/27	44:03			04:02	13:01						03:02	06:03			02:01	04:01	
113	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01		44:02:01	44:03:01	05:05:01	16:02:01	04:02:01	13:01:01	01:01:02	01:03:01				03:02:01	06:03:01			02:01	04:01	
115	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03				03:02	06:03	01:03		02:01	04:01	
116	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03				03:02	06:03			02:01	04:01	
123	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01		44:02:01	44:03:01	05:05:01	16:02:01	04:02:01	13:01	01:01	01:03				03:02:01	06:03:01			02:01	04:01	
126	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03				03:02	06:03	01:03		02:01	04:01	
130	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01		44:02:01	44:03:01	05:05	16:02:01	04:02:01	13:01:01	01:01:02	01:03:01				03:02:01	06:03:01	01:03:01		02:01	04:01:01	
132	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01:01		44:02:01:01	44:03:01:01	05:05	16:02:01	04:02:01	13:01:01:01	01:01:02	01:03:01				03:02:01	06:03:01			02:01:02	04:01:01:01	
133	Yes	Yes	Yes	Yes			Yes	Yes	02:01	02:01	44:02	44:03	05:05	16:02	04:02	13:01						03:02	06:03			02:01	04:01	
141	Yes	Yes	Yes	Yes			Yes	Yes	02:01		44:02	44:03	05:05	16:02/63	04:02	13:01/117/190/215						03:02	06:03			02:01	04:01	
142	Yes	Yes	Yes	Yes			Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03				03:02	06:03			02:01	04:01	
145	Yes	Yes	Yes	Yes			Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03				03:02	06:03			02:01	04:01	
147	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01:02:642/02:665		44:02:01	44:03:01	05:05:01	16:02:01/16:63	04:02:01	13:01/13:117/13:190/13 215	01:01	01:03				03:02	06:03			02:01	04:01	
149	Yes	Yes	Yes	Yes			Yes	Yes	02:01		44:02	44:03	05:05	16:02	04:02	13:01	01:01	01:03				03:02	06:03			02:01	04:01	
150	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01:01		44:02:01:01	44:03:01:01	05:05:01	16:02:01	04:02:01	13:01:01:01/02	01:01:02/01:02	01:03:01:01/03				03:02:01:02	06:03:01			02:01:02	04:01:01:02	
156	Yes	Yes	Yes	Yes			Yes	Yes	02:01		44:02/243	44:03	05:05	16:02/90	04:02	13:01						03:02	06:03			02:01	04:01	
157	Yes	Yes	Yes	Yes			Yes	Yes	02:01:01:01	02:01:01:01	44:02:01:01	44:03:01:01	05:05	16:02:01	04:02:01	13:01:01:01/13:01:01:02						03:02:01	06:03:01			02:01	04:01	
164	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01		44:02:01:01	44:03:01:01	05:05	16:02:01	04:02:01	13:01:01:01	01:01:02	01:03				03:02:01						

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd Field Resolution

SAMPLE 4A2 02/2017 DISPATCHED ON 07TH MARCH 2017

ASSESSMENT

Consensus	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB5*	DOA1*	DOA1*	DOB1*	DOB1*	DPA1*	DPA1*	DPB1*	DPB1*	Consensus
02:09/43N/66/75/83N/89/97/132/134/140/241/252/256/266/291/294/305N/327/329/356N/357/387/411/446/455/469	11:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:12	01:11	05:18/27/31/32/51	06:20/109/111/200	01:03	02:01	04:01	09:01	Acceptable
Unacceptable Not Assessed	02:642/642/665		15:147	44:243		05:145	01:77	15:141		01:11	01:12	05:110N/111						Unacceptable Not Assessed

Reports above the 2nd field are not assessed
Only alleles included in IMGT release 3.23.0 assessed

Result Summary

Number Unacceptable	0	0	1	0	0	0	1	0	0	1	1	1	0	0	0	0	0
Number NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1

Lab	A*	B*	C*	DRB1*	DRB3/4/5*	DOA1*	DPB1*	A*	B*	C*	DRB1*	DRB1*	DRB5*	DOA1*	DOA1*	DOB1*	DOB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	Comments		
9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	05:01	06:02	01:03	02:01	04:01	09:01			
11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	05:01	06:02	01:03	02:01	04:01	09:01			
12	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	05:01	06:02	01:03	02:01	04:01	09:01			
15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01/02:09/02:66	11:01/11:86/11:100	15:01/15:10	44:02/44:27/44	04:01/04:28/04:30	05:01/05:03/215:104	05:37	01:01/01:50/01:67	15:01/15:141	01:01	01:02	05:01/05:18/05:27	06:02	04:01/126/01/3/50:01	09:01			
19	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01/15:14	44:02	04:01/04:226	05:01	01:01/01:50/01:67	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01	DPB1*09:01 also includes the following allele string 289:01/386:01/504:01/505:01	
20	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01/50/67	15:01	01:01	01:02/11	05:01	06:02	01:03	02:01	04:01/350/01/4/15:01/464:01	09:01		
23	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
24	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01/01L	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
26	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02/02S	04:01/82/226	05:01	01:01/50/67	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
28	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
29	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
34	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
35	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01	11:01:01	15:01:01	44:02:01	04:01:01	05:01:01	01:01:01	15:01:01	01:01:01	01:02/11	05:01:01	06:02:01	01:03	02:01	04:01:01	09:01:01	B* 15:247, 44:27:01	
38	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
39	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01/247	44:02/27	04:01/226	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
41	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
42	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01/01L	11:01	15:01	44:02/02S	04:01/226	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01	Cannot exclude DOA1* 01:12, 01:11, DPA1* 01:10	
45	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01	11:01:01	15:01:01	44:02	04:01/04:82/04:226	05:01:01	01:01/01:50/01:67	15:01	01:01:01	01:01	01:02	05:01:01	06:02:01	01:03	02:01	04:01	09:01	B* 15:247, 44:27
48	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01/05:51	06:02/06:20	01:03	02:01	04:01	09:01		
51	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
62	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01:01	11:01:01:01	15:01:01:04	44:02:01:01	04:01:79	05:01:01:02	01:01:01	15:01:01	01:01:01	01:02	05:01:01:03	06:02:01:01	01:03	02:01	04:01:01	09:01:01		
101	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01	DOA1* 01:01/04/05	
112	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:09	11:01	15:01	44:02/27	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
113	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01	11:01:01	15:01:01	44:02:01	04:01:79	05:01:01	01:01:01	15:01:01	01:01:01	01:02	05:01:01	06:02:01	01:03	02:01	04:01	09:01		
115	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
119	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
123	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01	11:01:01	15:01:01	44:02:01	04:01	05:01:01	01:01:01	15:01:01	01:01	01:01	01:02	05:01:01	06:02:01	01:03	02:01	04:01	09:01	
126	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
130	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01	11:01:01	15:01:01	44:02:01	04:01:79	05:01:01	01:01:01	15:01:01	01:01:01	01:02	05:01:01	06:02:01	01:03	02:01	04:01:01	09:01:01		
132	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01:01	11:01:01:01	15:01:01:04	44:02:01:01	04:01:79	05:01:01:02	01:01:01	15:01:01:01	01:01:01	01:02	05:01:01:03	06:02:01	01:03	02:01	04:01:01	09:01:01		
133	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
141	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01/247	44:02/19N/27	04:01/09N/30/82/226	05:01	01:01/50/67	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
142	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
146	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
147	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01:02/642	11:01:01	15:01:01:04	44:02:01	04:01/04:30/04:82/04:226	05:01:01/05/145	01:01:01/01:50/01:67	15:01:141	01:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01	
149	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
150	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01:01:01	11:01:01:01	15:01:01:04	44:02:01:01	04:01:79	05:01:01:02	01:01:01	15:01:01:01/02/03/0	01:01:01	01:02	05:01:01:02/03	06:02:01:01	01:03	02:01	04:01:01:01/02	09:01:01		
156	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01/629	11:01	15:01	44:02/243	04:01/04:226	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
157	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01:01	11:01:01:01	15:01:01:04	44:02:01:01	04:01:01:06	05:01:01:02	01:01:01	15:01:01:01/15:01:0	01:01:01	01:02	05:01:01:02/05:	06:02:01	01:03	02:01	04:01	09:01	There is a mismatch in the allele HLA-C* 04:01:01:06 exon 1, position gDNA60 (C>T) C* new codon -5.3C>T (Thr>Val) vs C*	
164	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01:01	11:01:01:01	15:01:01:04	44:02:01:01	04:01	05:01:01:02	01:01:01	15:01:01	01:01	01:01	01:02	05:01:01:03	06:02:01	01:03	02:01	04:01	09:01	
165	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01/97	11:01	15:01	44:02	04:01/82/106	05:01/37/53	01:01/50/67	15:01	01:01/16	01:01/12	01:02	05:01/18/27/31/32	06:02/109/111	01:03	02:01	04:01	09:01	
178	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01		
186	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01/20/82	05:01	01:01/50/67	15:01	01:01/16	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01	
190	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01/642/665	11:01	15:01	44:02	04:01/30/82/226	05:01/145	01:01/50/67/77	15:01/141	01:01	01:01	01:02	05:01	06:02	01:03	02:01	04:01	09:01	
196	Yes	Yes	Yes	Yes	Yes	Yes	Yes	02:01	11:01	15:01	44:02	04:01	05:01	01:01	15:01	01:01	01:02	05:01	06:02	01:03	02:01				

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd Field Resolution

SAMPLE 4A2 03/2017

DISPATCHED ON 07TH MARCH 2017

ASSESSMENT

Consensus	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Consensus
	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01	01:01	01:03	03:03	05:01	02:01	03:01	01:03/Blank	04:01	23:01		
Acceptable	03:20/21N/24/26/37/45 78/112/118/129N/132/134/162N/182/220 68:11N/33/66/71/96 08:12/13/19N/109/120 40:55/80/141/41/150/151/179/199/221/236/241/247/264/272/278/279/299/301 03:100/101/105/106/2 07:06/18/52/153/166/337/343/419/458 03:124 01:01 new allele 01:16 01:01/06/09 02:09 03:09/19 126/01/350/01/415/01/459/01/464/01 138/01 Acceptable																		
Unacceptable	68:101/139/144/152/155 08:165/173 40:329 03:132/137 01:40N 02:66/67N Unacceptable Not Assessed																		
Result Summary	Reports above the 2nd field are not assessed Only alleles included in IMGT release 3.23.0 assessed																		
Number Unacceptable	0																		
Number NT	0																		

Lab	A*	B*	C*	DRB1*	DRB3/4/5*	DQA1*	DQA1*	DPB1*	DPB1*	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	Comments
	55	55	54	23	24	55	9	41	41																				
9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01/06/18	03:01	04:01	01:01	01:03			02:01	03:01			04:01	23:01		
11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01	01:01	01:03	03:03	05:01	02:01	03:01	01:03		04:01	23:01		
12	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01/03:20/03:26	68:01/68:33/68:96	08:01/08:109/08:173	40:01/40:55/40:141	03:04/03:100/03:101	07:01/07:06/07:18	03:01/03:124/03:132	04:01					02:01/02:02/02:04	03:01/03:09/03:19			04:01/126:01/350:01	23:01/138:01		
15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01/40:278	03:04	07:01	03:01/03:124	04:01					02:01	03:01			04:01	23:01		
19	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01/11N	08:01	40:01	03:04	07:01	03:01/1124	04:01					03:03	05:01	02:01	03:01	04:01/350:01/415:01/459:01/464:01	23:01		
20	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01	01:01	01:03	03:03	05:01	02:01	03:01	01:03		04:01	23:01		
23	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01					02:01	03:01	01:03		04:01	23:01		
24	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01/152	08:01	40:01	03:04	07:01	03:01	04:01					02:01	03:01			04:01	23:01		
26	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01/124/132	04:01					02:01	03:01			04:01	23:01		
28						Yes	Yes	Yes	Yes														01:03			04:01	23:01		Cannot exclude DPA1* 01:10
29	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04/03:294	153/07:343/07:419/07:458	03:01	04:01					02:01	03:01			04:01	23:01		
34	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01	01:01	01:03	03:03	05:01	02:01	03:01	01:03		04:01	23:01		
35	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01:01	68:01:02	08:01:01	40:01:02	03:04:01	07:01/343/419	03:01:01	04:01:01	01*	01:03:01			03:03	05:01	02:01:01	03:01:01	04:01:01	23:01:01		C* 03:294, 07:153
38	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01					03:03	05:01	02:01	03:01	04:01	23:01		
39	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04/294	07:01/153	03:01	04:01					03:03	05:01	02:01	03:01	04:01/464:01	23:01		
41	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01					03:03	05:01	02:01	03:01	04:01	23:01		
42	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01/06:18/343/419/458	03:01	04:01					02:01	03:01			04:01	23:01		
45	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01:01	68:01:02	08:01	40:01	03:04:01	07:01/07:343/07:419/07:458	03:01/03:124	04:01	01:01/01:04	01:03			02:01:01	03:01:01			04:01/350:01/415:01/459:01/464:01/534:01	23:01		
48	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01/03:24	68:01/68:66	08:01	40:01	03:04/03:294	07:01/07:153	03:01	04:01					02:01	03:01			04:01	23:01		
51	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01:01	68:01:02	08:01:01:01	40:01:01	03:04:01:02	07:01:01:01	03:01:01:01	04:01:01:01	01:01:01	01:03			02:01:01	03:01:01:01	01:03		04:01	23:01		DQA1* 03:02/03
101	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01	01:01	01:03	03:03	05:01	02:01	03:01	01:03		04:01	23:01		
112	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01					02:01:01	03:01:01			04:01	23:01		
113	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01:01	68:01:02	08:01:01	40:01:02	03:04:01	07:01:01	03:01:01	04:01:01	01:01	01:03	03:03	05:01	02:01	03:01	01:03		04:01	23:01		
119	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01					03:03	05:01	02:01	03:01	04:01	23:01		
123	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01:02	08:01	40:01	03:04:01	07:01:01	03:01:01	04:01:01	01:01	01:03			02:01	03:01			04:01	23:01		
125	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01	01:01	01:03	03:03	05:01	02:01	03:01	01:03		04:01	23:01		
130	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01:01	68:01:02	08:01:01	40:01:02	03:04:01	07:01:01	03:01:01	04:01:01	01:01	01:03:01	03:03:01	05:01:01	02:01:01	03:01:01	01:03:01		04:01:01	23:01:01		
132	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01:01:01	68:01:02:02	08:01:01	40:01:02	03:04:01	07:01:01:01	03:01:01:01	04:01:01:01	03:03:01:01	05:01:01:02	02:01:01	03:01:01:01	02:01:01	03:01:01:01	01:03:01		04:01:01:02	23:01:01		
133	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01					02:01	03:01			04:01	23:01		
141	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01					02:01	03:01			04:01	23:01		
142	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01/12/31/120/165	40:01/80/14/199/279	03:04	07:01/06:18/343/419/458	03:01/124/132	04:01					02:01	03:01			04:01	23:01		
145	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01					03:03	05:01	02:01	03:01	04:01	23:01		
147	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01/02/68:152	08:01:01	40:01:02	03:04:01	07:01:01	03:01/03:124/03:132	04:01:01	01:01	01:03			02:01	03:01			04:01	23:01		
149	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01	01:01	01:03	03:03	05:01	02:01	03:01			04:01	09:01		
150	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01:01:01	68:01:02:02	08:01:01:01	40:01:02	03:04:01:02	07:01:01:01	03:01:01:01:02	04:01:01:02	01 New Allele	01:03:01:01/03			02:01:01	03:01:01:01			04:01:01:01:02	23:01:01		DRB3*: 01 new allele, gDNA position 10579 exon 3
156	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01	68:01	08:01	40:01	03:04	07:01	03:01	04:01					02:01	03:01			04:01	23:01		
157	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	03:01:01:01	68:01:02:02	08:01:01:01	40:01:02	03:04:01:02	07:01:01:01	03:01:01:01:03:01:0	04:01:01:02					02:01:01	03:01:01:01		</				

SAMPLE 4A2 04/2017 DISPATCHED ON 07TH MARCH 2017

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd Field Resolution

ASSESSMENT

Consensus	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DOB1*	DOB1*	DPA1*	DPA1*	DPB1*	DPB1*	Consensus
	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08	01:01	01:03	03:03	05:01	02:01	03:02	01:03	02:01	02:01	02:01	
Acceptable	01:04N/22N/32/37/45/5 6N/81/87N/98/103/107/ 109/132/141/142/155/1 77	202/126N/37/45/78/112 /118/129N/132/134/150/ 162N/182/220	07:44/49N/58/59/6 /156/161N/169	08:19N/109	07:06/18/52/153/1 66/337/343/419/4 58	07:50/27/68/74/159/1 60/167/245/308/348/3 49/350N/359/446/486	03:124	01:16	01:01/06/09				02:04/09/59	03:32/85			141:01/352:01/414 :01/461:01		Acceptable
Unacceptable Not Assessed	01:234		02:271	08:173		07:500/533/566/544	03:132/137		01:40N				02:66/67N	03:220				450:01	Unacceptable Not Assessed

Reports above the 2nd field are not assessed
Only alleles included in IMGT release 3.23.0 assessed

Result Summary

Number Unacceptable
Number NT

0	0	0	0	1	0	0	1	1	0	1	2	0	1	1	0	0	0	0	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1

Lab	A*	B*	C*	DRB1*	DRB3/4/5*	DQA1*	DOB1*	DPA1*	DPB1*	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DOB1*	DOB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	Comments
	55	55	55	23	24	55	41	9	41																				
9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01/18/458	07:02/50/349	03:01	04:08	01:01	01:03			02:01	03:02			02:01	11:01		
11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08					02:01	03:02			02:01	11:01		
12	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08	01:01	01:03	03:03	05:01	02:01	03:02	01:03	02:01	02:01	11:01		
15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01:32/0:137	03:01/03:20/03:26	07:02/07:58/07:59	08:01/08:109/08:173	07:01/07:06/07:18	07:02/07:50/07:66	03:01/03:124/ 03:132	04:08					02:01/02:02/02:04	03:02/03:32/03:8	01:03	02:01	02:01/141:01/352: 01	11:01		
19	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01/03:124	04:08					02:01	03:02			02:01/141:01 50:01N	11:01/388:01/4 50:01N		
20	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02/61/161N	08:01	07:01	07:02	03:01/124	04:08			03:03	05:01	02:01	03:02			02:01/141:01/352: 01/414:01/461:01	11:01		
23	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08	01:01	01:03	03:03	05:01	02:01	03:02	01:03	02:01	02:01	11:01		
24	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08					02:01	03:02			02:01	11:01		
26	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01/124/13 2	04:08					02:01	03:02			02:01	11:01		
28																				03:03	05:01			01:03	02:01	02:01	11:01		Cannot exclude DPA1* 01:10
29	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01/07:36/07:18 /07:343/07:419/07 458	07:02/07:50/07:349	03:01	04:08					02:01	03:02						
34	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08	01:01	01:03	03:03	05:01	02:01	03:02	01:03	02:01	02:01	11:01		
35	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01	03:01/01	07:02/01	08:01/01	07:01/01	07:02/01	03:01/01	04:08/01	01:01/02	01:03/01	03:03	05:01	02:01/01	03:02/01			02:01	11:01		
38	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08			03:03	05:01	02:01	03:02			02:01	11:01		
39	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/98	03:01/150	07:02	08:01	07:01	07:02	03:01	04:08	03:01	04:08			02:01	03:02			02:01	11:01		
41	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08			03:03	05:01	02:01	03:02			02:01	11:01		
42	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01/18/458	07:02/50/349	03:01	04:08					02:01	03:02			02:01	11:01		
45	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01:01	03:01/01	07:02/01	08:01	07:01/07:343/07:4 19/07:458	07:02/07:349	03:01/03:124	04:08/01	01:01/01:04	01:03			02:01/01	03:02/01			02:01/141:01	11:01		
48	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08					02:01	03:02			02:01	11:01		
51	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08	01:01	01:03	03:03	05:01	02:01	03:02	01:03	02:01	02:01	11:01		
62	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01:01	03:01/01:01	07:02/01	08:01/01:01	07:01/01:01	07:02/01:03	03:01/01:01	04:08/01	01:01	01:03			02:01/01	03:02/01:01			02:01	11:01		
101	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08	01:01	01:03	03:02	05:01	02:01	03:02	01:03	02:01	02:01	11:01		DQA1* 03:02/03
112	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01			03:01	04:08												
113	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01	03:01/01	07:02/01	08:01/01	07:01/01	07:02/01	03:01/01	04:08/01	01:01/02	01:03/01	03:03	05:01	02:01/01	03:02/01			02:01	11:01		
115	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08	01:01	01:03	03:03	05:01	02:01	03:02	01:03	02:01	02:01	11:01		
119	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08			03:03	05:01	02:01	03:02			02:01	11:01		
123	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/98	03:01/150	07:02	08:01	07:01	07:02	03:01	04:08	01:01	01:03	03:03	05:01	02:01	03:02			02:01	11:01		
126	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08	01:01	01:03	03:03	05:01	02:01	03:02	01:03	02:01	02:01	11:01		
130	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01	03:01/01	07:02/01	08:01/01	07:01/01	07:02/01	03:01/01	04:08/01	01:01/02	01:03/01	03:03/01	05:01/01	02:01/01	03:02/01	01:03/01	02:01/01	02:01	11:01		
132	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01:01	03:01/01:01	07:02/01	08:01/01	07:01/01:01	07:02/01:03	03:01/01:01	04:08/01	01:01/01	01:03/01	03:03/01:01	05:01/01:02	02:01/01	03:02/01			02:01/02	11:01:01		
133	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08					02:01	03:02						
141	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08					02:01	03:02						
142	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02/61/161N	08:01	07:01/06/18/19/34 3/419/458	07:02/27/50/349	03:01/124/13 2	04:08					02:01	03:02						
145	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01	04:08			03:03	05:01	02:01	03:02			02:01	11:01		
147	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01:01/234	03:01	07:02/07:61	08:01/01	07:01/01	07:02/01:03	03:01/03:124/ 03:132/03:13	04:08/01	01:01	01:03			02:01	03:02			02:01	11:01		
149	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	03:01	07:02	08:01	07:01	07:02	03:01													

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd Field Resolution

SAMPLE 4A2 05/2017 DISPATCHED ON 07TH MARCH 2017 ASSESSMENT

Consensus	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Consensus
	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02	01:03	01:03/blank	04:01	04:01/blank	
Acceptable	01:04N/22N/32/3 7/45/56N/81/87N /98/103/107/109/ 132/141/142/155 /177	26:24/26/56/82/9 8/9N/117	08:19N/109	40:55/141/150/1 51/179/221/236/ 241/247/264/272 /278/299/301	03:100/101/105/ 106/211/212/213 /218/219/236/25 2/294/303	07:06/18/52/166/337/3 43/419/458	03:124		01:16	01:01/06/09			02:04/09	03:32/85			126:01/350:01/415:0 /459:01/464:01		Acceptable
Unacceptable Not Assessed	01:234	26:02	08:173	40:329	03:02		03:127 03:132/137		01:40N		01:07		02:02 02:66/67N	03:220			534:01		Unacceptable Not Assessed
Result Summary																			
Number Acceptable																			
Number Unacceptable																			
Number NT																			
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	

Reports above the 2nd field are not assessed
Only alleles included in IMGT release 3.23.0 assessed

Lab	A*	B*	C*	DRB1*	DRB3/4/5*	DQA1*	DQB1*	DPA1*	DPB1*	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	Comments	
	55	55	54	24	23	24	55	9	41	01:01	26:01	08:01	40:01	03:04	07:01/06/18	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02							
9	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01	08:01	40:01	03:04	07:01/06/18	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02							
11	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02							
12	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02	01:03			04:01	04:01		
15	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01/01:32/01:3	26:01/26:24/26:2	08:01/08:109/08:	40:01/40:55/40:1	03:04/03:100/03:	07:01/07:06/07:18	03:01/03:124/03:132	04:04					02:01/02:02/02:04	03:02/03:32/03:85			04:01/464:01	04:01			
19	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01/26:117	08:01	40:01	03:04	07:01	03:01/03:124	04:04					02:01	03:02				04:01	04:01		
20	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	01:01	26:01/117	08:01	40:01	03:04	07:01	03:01/124	04:04				03:01	05:01	02:01	03:02			04:01/350:01/415:01 /459:01/464:01	04:01		
23	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02	01:03			04:01	04:01		
24	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02				04:01	04:01		
26	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01/117	08:01	40:01	03:04	07:01	03:01/124/132	04:04					02:01	03:02				04:01	04:01		
28							Yes		Yes												03:01	05:01			01:03			04:01	04:01	Cannot exclude DPA1* 01:10
29	Yes	Yes	Yes	Yes	Yes				Yes	01:01	26:01/26:117	08:01	40:01	03:04/03:294	07:01/07:06/07:18/07:153/0 7:343/07:419/07:458	03:01	04:04					02:01	03:02							
34	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02	01:03			04:01	04:01		
35	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	26:01	08:01	40:01	03:04/01	07:01/01:343/419	03:01/01	04:04/01	01:01/02	01:03/01	03:01	05:01	02:01/01	03:02/01			04:01/01	04:01		C*03:294; 07:153	
38	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04					03:01	03:02				04:01	04:01		
39	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	26:01	08:01	40:01	03:04/294	07:01/153	03:01	04:04					03:01	03:02				04:01/464:01	04:01		
41	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04				03:01	05:01	02:01	03:02			04:01	04:01		
42	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01	08:01	40:01	03:04	07:01/06/18/343/419/458	03:01	04:04					02:01	03:02				04:01	04:01		
45	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01/01:01	26:01/01:26:117	08:01	40:01	03:04/01	07:01/07:343/07:419/07:458 8	03:01/03:124	04:04/01	01:01/01:04	01:03			02:01/01	03:02/01			04:01/415:01/459:01 /464:01/534:01	04:01		C*03:294; 07:153	
48	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01	08:01	40:01	03:04/03:294	07:01/07:153	03:01	04:04					02:01	03:02				04:01	04:01		
51	Yes	Yes	Yes	Yes	Yes		Yes		Yes																					
62	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01:01	26:01/01:01	08:01/01:01	40:01/02	03:04/01:01	07:01/01:01	03:01/01:01	04:04/01	01:01	01:03	03:01	05:01	02:01/01	03:02/01	01:03			04:01/01	04:01		
101	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02				04:01	04:01		
112	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01	08:01	40:01			03:01	04:04													
113	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01	26:01/01	08:01/01	40:01/02	03:04/01	07:01/01	03:01/01	04:04/01	01:01/02	01:03/01	03:01	05:01	02:01/01	03:02/01				04:01	04:01		
116	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02	01:03			04:01	04:01		
119	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02							
123	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02							
126	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02				04:01	04:01		
130	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01	26:01/01:01	08:01/01	40:01/02	03:04/01	07:01/01	03:01/01	04:04/01	01:01/02	01:03/01	03:01	05:01/01	02:01/01	03:02/01	01:03/01			04:01/01	04:01		
132	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01:01	26:01/01:01	08:01/01	40:01/02	03:04/01	07:01/01:01	03:01/01:01	04:04/01				03:01/01	05:01/01:0 2	02:01/01	03:02/01			04:01/01:01	04:01		
133	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02							
141	Yes	Yes	Yes	Yes	Yes		Yes		Yes																					
142	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01/117	08:01	40:01	03:04	07:01/06/18/343/419/458	03:01/124/132	04:04					02:01	03:02							
145	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02							
147	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01:01/234	26:01/26:117	08:01/01	40:01/02	03:04/01	07:01/01	03:01/03:124/03:132	04:04/01	01:01	01:03			02:01	03:02				04:01	04:01		
149	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02							
150	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01:01	26:01/01:01	08:01/01:01	40:01/02	03:04/01:01	07:01/01:01	03:01/01:02	04:04/01	01:01/02:01/0 2	01:03/01:01/0 3			02:01/01	03:02/01			04:01/01:01/02	04:01			
156	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01/26:117	08:01	40:01/40:329	03:04	07:01	03:01	04:04					02:01	03:02							
157	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01/01:01	26:01/01:01	08:01/01:01	40:01/02	03:04/01:01	07:01/01:01	03:01/01:01/03:01:01:02	04:04/01					02:01/01	03:02/01							
164	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01/01:01	26:01/01:01	08:01/01	40:01/02	03:04/01	07:01/01:01	03:01/01:01	04:04/01	01:01/02:01	01:03	03:01	05:01	02:01/01	03:02/01			04:01	04:01			
165	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	01:01	26:01/82	08:01	40:01	03:04	07:01	03:01	04:04	01:01/16	01:03/09	03:01	05:01	02:01/09	03:02	01:03	01:03		04:01	04:01		
178	Yes	Yes	Yes	Yes	Yes		Yes		Yes	01:01	26:01	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02					04:01	04:01	
185	Yes	Yes</																												