

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd or 3rd Field Resolution

SAMPLES 4A2 01-05/2018

DISPATCHED ON 19TH JUNE 2018

METHODOLOGY SSP = PCR-SSP, SSOP = PCR-SSOP, SBT = Sequence Based Typing, LUM = Luminex, NGS = Next Generation Sequencing, TGS = Third Generation Sequencing

Lab No.	Date received	Date tested	Method used HLA-A	HLA-B	HLA-C	HLA-DRB1	HLA-DRB3,4,5	HLA-DQA1	HLA-DQB1	HLA-DPA1	HLA-DPB1	IMGT/HLA allele database release	Commercial Kits	Source of Primers and Probes Own Design	Other	Kit manufacturer	Detection method	DNA extraction method	Reagent/Kit	System
9	19-Jun	22-Jun	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	LUM		SBT/LUM		SSP/SSP	3.31.0	Yes			One Lambda	Gel, Fluorescence	Automated	EZ1	
11	19-Jun	22-Jun	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	LUM		SBT/LUM		SSP/SSP	3.31.0	Yes	Yes		One Lambda	Gel, Fluorescence	Automated	RSC	
12	19-Jun	26-Jun	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	3.29.0	Yes	Yes		Illumina	Fluorescence	Automated	Flex Star	
15	20-Jun	28-Jun	SBT	SBT	SBT	SBT			SBT		SSP	3.29.0.0	Yes	Yes		Olerup, In-house	Gel, Fluorescence	Automated	Roche	
19	21-Jun	26-Jun	SBT/LUM/RT-PCR	SBT/LUM/RT-PCR	SBT/LUM/RT-PCR	SBT/LUM/RT-PCR			SBT/LUM/RT-PCR		LUM/RT-PCR	3.23	Yes	Yes		Immucor, Linkage Bioscience	Gel, Fluorescence			
20	20-Jun	21-Jun	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	LUM	SBT/LUM	SBT/LUM	LUM	LUM/NGS	3.27	Yes	Yes		Immucor, In-house	Fluorescence	Manual	Puregene	
23	20-Jun	02-Jul	NGS	NGS	NGS	LUM/NGS	NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	3.31	Yes	Yes		One Lambda, Immulina	Gel, Fluorescence	Automated	EZ1	
24	20-Jun	04-Jul	SBT	SBT	SBT	SBT			SBT		SSP/SSP/LUM	3.31	Yes	Yes		Olerup, GenDx, Immucor	Fluorescence	Automated		
26	26-Jun	26-Jun	LUM/SSP	LUM/SSP	LUM/SSP	LUM/SSP			LUM/SSP		LUM/SSP	3.27.0	Yes	Yes		Immucor	Gel, Fluorescence	Automated	EZ1	
28	20-Jun	22-Jun	SSP/SSP	SSP/SSP	SSP/SSP	SSP/SSP		SSP/LUM	SSP/SSP	SSP/LUM	SSP/LUM	3.27.0	Yes	Yes		One Lambda	Gel, Fluorescence	Automated	EZ1	
29	21-Jun	22-Jun	SSP/SSP	SSP/SSP	SSP/SSP	SSP/SSP		SSP/LUM	SSP/SSP	SSP/LUM	SSP/LUM	3.27.0	Yes	Yes		Olerup, One Lambda	Gel, Fluorescence	Automated	EZ1	
34	20-Jun	20-Jun	SSP/SSP/LUM	SSP/SSP/LUM	SSP/SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	3.24.0.1	Yes	Yes		Olerup, Linkage, GenDx, One Lambda	Gel, Fluorescence, Melt curve	Automated	Roche MagNA Pure	
35	20-Jun	29-Jun	SSOP/SSP/LUM	SSOP/SSP/LUM	SSOP/SSP/LUM	SSOP/SSP/LUM	SSOP/SSP/LUM	SSOP/SSP/LUM	SSOP/SSP/LUM	SSOP/SSP/LUM	SSOP/SSP/LUM	3.25; 3.26	Yes	Yes		One Lambda, Illumina	Gel, Fluorescence	Automated		
38	20-Jun	25-Jun	SBT/LUM/NGS	SBT/LUM/NGS	SBT/LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	19/01/2018	Yes	Yes		Conexio, One Lambda, Illumina	Fluorescence	Automated		
39	20-Jun	20-Jun	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM		SSP/LUM	SBT/LUM	SSP	SSP	19/01/2018	Yes	Yes		Invitrogen, GenDx, Immucor	Gel, Fluorescence	Automated	MagnaPure	
41	20-Jun	05-Jul	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	19/01/2018	Yes	Yes		GenDx	Fluorescence	Automated	QiaSymphony DSP	
42	21-Jun	28-Jun	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	19/01/2018	Yes	Yes		GenDx	Fluorescence	Automated	EZ1	
45	20-Jun	28-Jun	SSP/SSP	SSP/SSP	SSP/SSP	SSP/SSP			SSP/SSP	SSP/SSP	SSP/SSP		Yes	Yes		One Lambda, Immucor	Gel, Fluorescence	Manual/Automated	Salting out	
48	21-Jun	20-Jun	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM			SBT/LUM	SBT/LUM	SBT/LUM	3.31	Yes	Yes		One Lambda, Immucor	Gel, Fluorescence	Manual	Qiagen	
62	20-Jun	20-Jun	SSP/SSP/NGS	SSP/SSP/NGS	SSP/SSP/NGS	SSP/SSP/NGS	SSP/LUM/SSP		SSP/SSP/NGS	SSP/SSP/NGS	SSP/SSP/NGS	3.31	Yes	Yes		Lifetech, Pacific Biosciences	Gel, Fluorescence	Manual	Maxwell	
101	20-Jun	25-Jun	SBT	SBT	SBT	LUM/SSP		LUM	LUM/SSP	LUM	LUM		Yes	Yes		Bionobis, One Lambda, Protrans	Fluorescence	Automated		
112	06-Jul	05-Jul	LUM	LUM	LUM	LUM			LUM		LUM	3.26	Yes	Yes		One Lambda	Fluorescence	Automated		
113	20-Jun	25-Jun	SSP, LUM, NGS	SSP, LUM, NGS	SSP, LUM, NGS	SSP, LUM, NGS	SSP, LUM, NGS		SSP, LUM, NGS	SSP, LUM, NGS	SSP, LUM, NGS	3.26	Yes	Yes		Olerup, One Lambda, GenDx	Gel, Fluorescence	Automated		
115																				
119	20-Jun	25-Jun	SSP/LUM/SSP	SSP/LUM/SSP	SSP/LUM/SSP	SSP/LUM/SSP		SSP/LUM	SSP/LUM/SSP	SSP/LUM/SSP	SSP		Yes	Yes		Olerup, Invitrogen, One Lambda	Gel, Fluorescence	Automated	Qiagen	
123	20-Jun	25-Jun	SBT	SBT	SBT	SBT	SSP		SBT	SSP	SSP		Yes	Yes		One Lambda, GenDx	Gel, Fluorescence	Automated	EZ1	
126	29-Jun	04-Jul	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP		Yes	Yes		Olerup	Gel	Automated		
130	20-Jun	27-Jun	SBT/NGS	SBT/NGS	SBT/NGS	SBT/NGS	SBT	SBT/NGS	SBT/NGS	SBT/NGS	SBT/NGS		Yes	Yes		GenDx, PacBio	Gel, Fluorescence	Automated		
132	20-Jun	06-Jul	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS		Yes	Yes		Olerup, Immulina	Gel, Fluorescence	Automated		
133	21-Jun	29-Jun	SSP/SSP/NGS	SSP/SSP/NGS	SSP/SSP/NGS	SSP/SSP/NGS			SSP/SSP/NGS	SSP/SSP/NGS	SSP/SSP/NGS		Yes	Yes		Olerup, GenDx	Gel, Fluorescence	Automated		
141																				
142	19-Jun	20-Jun	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM		SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM		Yes	Yes		Olerup, One Lambda	Gel, Fluorescence	Automated	Maxwell 16	
145	20-Jun	06-Jul	SSP/LUM/NGS	SSP/LUM/NGS	SSP/LUM/NGS	SSP/LUM/NGS	SSP	SSP/LUM	SSP/LUM/NGS	SSP/LUM/NGS	SSP/LUM/NGS		Yes	Yes		Olerup, One Lambda, Qiagen	Gel, Fluorescence	Automated	Quickgen	
147	21-Jun	21-Jun	SSP/LUM/NGS	SSP/LUM/NGS	SSP/LUM/NGS	SSP/LUM/NGS	SSP	SSP/LUM	SSP/LUM/NGS	SSP/LUM/NGS	SSP/LUM/NGS		Yes	Yes		Olerup, One Lambda, Qiagen	Gel, Fluorescence	Automated		
149	20-Jun	22-Jun	SSP/SSP/LUM	SSP/SSP/LUM	SSP/SSP/LUM	SSP/SSP/LUM	SSP	SSP/LUM	SSP/SSP/LUM	SSP/SSP/LUM	SSP		Yes	Yes		Protrans, Unitray, Olerup, Invitrogen, One Lambda, Immucor	Gel	Automated	iPrep	
156	21-Jun	02-Jul	SSP/SSP/LUM	SSP/SSP/LUM	SSP/SSP/LUM	SSP/SSP/LUM	SSP	SSP/LUM	SSP/SSP/LUM	SSP/SSP/LUM	SSP		Yes	Yes		Protrans, Unitray, Olerup, Invitrogen, One Lambda, Immucor	Gel	Automated		
157	20-Jun	03-Jul	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	3.30.0	Yes	Yes		GenDx	Fluorescence	Automated	Macherey-Nagel by Tecan	
165	21-Jun	27-Jun	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP		Yes	Yes		Genovision, Olerup, Invitrogen, Gold, One Lambda	Gel, Fluorescence	Manual	Qiagen Dneasy	
167	20-Jun	03-Jul	SSP/LUM	SSP/LUM	SSP/LUM	SSP	SSP	SSP	SSP	SSP	SSP		Yes	Yes		Genovision, Olerup, Invitrogen, Gold, One Lambda	Gel, Fluorescence	Automated	Roche MagNA Pure	
178	27-Jun	14-Jul	SSP/LUM	SSP/LUM	SSP/LUM	SSP	SSP	SSP	SSP	SSP	SSP		Yes	Yes		MIA Fora	Fluorescence	Automated	QiaSymphony	
185	20-Jun	27-Jun	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	NGS	3.30.0	Yes	Yes		MIA Fora	Fluorescence	Automated		
190	20-Jun	05-Jul	SSP/SSP	SSP/SSP	SSP/SSP	SSP/SSP			SSP/SSP	SSP/SSP	SSP/SSP		Yes	Yes		Olerup	Gel	Automated	Qiagen	
196	27-Jun	09-Jul	SSP/SSP	SSP/SSP	SSP/SSP	SSP/SSP		SSP	SSP/SSP	SSP/SSP	SSP/SSP		Yes	Yes		Olerup	Gel	Automated		
223	20-Jun	25-Jun	SSP/SSP	SSP/SSP	SSP/SSP	SSP/SSP		SSP	SSP/SSP	SSP/SSP	SSP/SSP		Yes	Yes		Olerup	Gel	Automated	Qiagen	
225	29-Jun	06-Jul	SSP/LUM/SSP	SSP/LUM/SSP	SSP/LUM/SSP	SSP/LUM/SSP	SSP	SSP	SSP/LUM/SSP	SSP/LUM/SSP	SSP/LUM/SSP		Yes	Yes		Olerup, One Lambda, Omixon	Gel, Fluorescence	Automated	Chemagen, Hamilton	
227	19-Jun	10-Jul	SSP/LUM/SSP	SSP/LUM/SSP	SSP/LUM/SSP	SSP/LUM/SSP	SSP	SSP	SSP/LUM/SSP	SSP/LUM/SSP	SSP/LUM/SSP	3.29	Yes	Yes		Olerup, Immucor	Gel	Automated		
232	21-Jun	05-Jul	SSP/LUM/SSP	SSP/LUM/SSP	SSP/LUM/SSP	SSP/LUM/SSP	SSP	SSP	SSP/LUM/SSP	SSP/LUM/SSP	SSP/LUM/SSP		Yes	Yes		Olerup, Immucor	Gel	Automated		
245	20-Jun	05-Jul	SSP/SSOP/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM			SSP/SSOP/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM		Yes	Yes		Olerup, Immucor	Gel, Fluorescence	Automated	Qiagen	
248	21-Jun	06-Jul	SSP/SSOP/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM			SSP/SSOP/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM		Yes	Yes		Olerup, Immucor	Gel, Fluorescence	Automated	EZ1	
259	20-Jun	13-Jul	SSP/SSOP/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM			SSP/SSOP/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM		Yes	Yes		Olerup, Immucor	Gel, Fluorescence	Automated	Qiagen	
260	21-Jun	29-Jun	SBT	SBT	SBT	SBT			SBT	SBT	SBT		Yes	Yes		GenDx, Allele SEQR	Gel	Automated	EZ1	
267	20-Jun	07-Sep	SBT	SBT	SBT	SBT			SBT	SBT	SBT	3.31	Yes	Yes		Protrans	Fluorescence	Manual	Qiagen	
268	25-Jun	29-Jun	NGS	NGS	NGS	SBT/NGS	SSP	SSP/SSOP	SBT/LUM	SSP/SSOP	SSP/SSOP		Yes	Yes		Olerup, Protrans, One Lambda, Omixon	Gel, Fluorescence	Automated	Qiagen	
273	20-Jun	02-Jul	NGS	NGS	NGS	SBT/NGS	SSP	SSP/SSOP	SBT/LUM	SSP/SSOP	SSP/SSOP		Yes	Yes		Olerup, Protrans, One Lambda, Omixon	Gel, Fluorescence	Automated	Qiagen	
276	20-Jun	05-Jul	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP			SSP/SSOP	SSP/SSOP	SSP/SSOP		Yes	Yes		Olerup, Protrans, One Lambda, Omixon	Gel, Fluorescence	Automated	Qiagen	
284	20-Jun	27-Jun	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP			SSP/SSOP	SSP/SSOP	SSP/SSOP		Yes	Yes		Olerup, Protrans, One Lambda, Omixon	Gel, Fluorescence	Automated	Qiagen	
304	20-Jun	05-Jul	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP			SSP/SSOP	SSP/SSOP	SSP/SSOP		Yes	Yes		Olerup, Protrans, One Lambda, Omixon	Gel, Fluorescence	Automated	Qiagen	
312	21-Jun	05-Jul	SBT/NGS	SBT/NGS	SBT/NGS	SBT/NGS			SBT/NGS	SBT/NGS	SBT/NGS		Yes	Yes		One Lambda	Fluorescence	Automated	iPrep	
328	20-Jun	02-Jul	SBT	SBT	SBT	SBT			SBT	SBT	SBT	3.24.0	Yes	Yes		One Lambda	Fluorescence	Automated	iPrep	
332	23-Jun	28-Jun	SBT	SBT	SBT	SBT			SBT	SBT	SBT	3.25.0	Yes	Yes		One Lambda	Fluorescence	Automated	iPrep	
367	20-Jun	29-Jun	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	3.32.0.07	Yes	Yes		Olerup	Gel	Automated	Promega, Maxwell	
374	27-Jun	03-Jul	SBT	SBT	SBT	SBT			SBT	SBT	SBT		Yes	Yes		Olerup	Gel	Automated		
375	25-Jun	28-Jun	SBT	SBT	SBT	SBT			SBT	SBT	SBT	3.27	Yes	Yes		Immucor	NGS SBT	Automated		

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd or 3rd Field Resolution

SAMPLE 4A2 01/2018 DISPATCHED ON 19TH JUNE 2018 ASSESSMENT

2nd field	A* 01:01 01:23/37/109/2 34/237 01:09	A* 68:01 68:11N/33/96/ 152/164 01:68	B* 08:01 08:109/173/183	B* 44:02 44:02S/19N/2 7/66	C* 02:02 02:29/69	C* 07:01 07:06/18/343/419/458/591 /610	DRB1* 03:01 03:124/132/137	DRB1* 13:01 13:117/190/215 /233	DRB3* 01:01 01:25/33	DRB3* 01:01/Blank	DOA1* 01:03 01:10/14	DOA1* 05:01	DOB1* 02:01 02:02/04	DOB1* 06:03 06:41/44	DPA1* 01:03	DPA1* 02:01	DPB1* 04:01 162/01/417/01/616/01	DPB1* 04:01 126/01/350/01/415/01/459/01/464/ 01/534/01/615/01/618/01/670/01	Acceptable Acceptable Unacceptable
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Result Summary
Number Acceptable
Number Unacceptable
Number NT

3rd field	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01	01:01:02	Blank	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	04:01:01
Number Acceptable	33	33	34	34	33	33	39	39	15	16	16	18	36	36	6	6	25	25	2
Number Unacceptable	2	2	1	1	1	1	1	1	2	1	3	1	1	1	1	1	2	2	2
Number NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Lab	A*	B*	C*	DRB1*	DRB3/4/5*	DOA1*	DOB1*	DPA1*	DPB1*	A*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB3*	DOA1*	DOA1*	DOB1*	DOB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination		
9	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01	08:01	44:02/19N	02:02	07:01/06/18	03:01	13:01			02:01	06:03			01:01	04:01			
11	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01			02:01	06:03			01:01	04:01			
12	2nd	2nd	2nd	2nd	2nd	2nd		2nd	2nd	01:01/32/37	68:01/33/96	08:01/109/173	44:02/27/66	02:02/29/69	07:01/06/18	03:01/124/132	13:01/117/190			02:01/02/04	06:03/41/44			01:01/62/01/417/01	04:01/126/01/350/01			
15	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01/234	68:01/152	08:01/173	44:02	02:02	07:01	03:01/124/132/137	13:01			02:01	06:03			01:01/62/01/417/01	04:01/126/01/350/01			
19	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01/234	68:01/11N/152	08:01/173	44:02/19N	02:02	07:01	03:01/124/132/137	13:01/117/190/			02:01	06:03			01:01/417/01/616/01	04:01/415/01/459/01/464/01/534/01			
20	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01/234	68:01/11N/152	08:01/173	44:02/19N	02:02	07:01	03:01/124/132/137	13:01/117/190/			02:01	06:03			01:01/417/01/616/01	04:01/415/01/459/01/464/01/534/01			
23	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01			02:01	06:03			01:01	04:01			
24	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01/152	08:01	44:02	02:02	07:01	03:01	13:01			02:01	06:03			01:01	04:01			
26	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01/152	08:01/173/183	44:02/02S	02:02	07:01	03:01/124/132/137	13:01/233			02:01	06:03			01:01	04:01	A*01:109, 68:164		
28	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01/234	68:01/152	08:01/173	44:02	02:02	07:01/06/18/343/419/458	03:01	13:01			02:01	06:03			01:01	04:01			
34	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01			02:01	06:03			01:01	04:01			
35	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:03:01	02:01:01	01:01:01	04:01:01	DPA1*02:01
38	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
39	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01/109	68:01/152/164	08:01	44:02	02:02	07:01	03:01	13:01			02:01	06:03			01:01	04:01			
41	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
42	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:03:01:02	02:01:02:02	01:01:01	04:01:01	
45	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01/02/152	08:01/01/183	44:02	02:02	07:01/01/07:01/02/343/419/458/591/610	03:01/124/132/137	13:01/117/190/			02:01:01	06:03:01			01:01/62/01/417/01	04:01/350/01			
48	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01/109	68:01/152/164	08:01	44:02	02:02	07:01	03:01	13:01			02:01	06:03			01:01	04:01/464/01			
62	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02:01	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
101	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
112	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01	08:01	44:02/27	02:02	07:01:01	03:01	13:01			02:01:01	06:03:01			01:01:01	04:01:01			
113	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
115	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01			02:01	06:03			01:01:01	04:01:01			
119	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01			02:01	06:03			01:01	04:01			
123	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
126	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
130	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02:01	07:01:01/01/16	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
132	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02:01	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
133	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02:01	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
141	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02:01	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
142	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01			02:01	06:03			01:01	04:01	A*01:109, 68:152/164 B*08:173 C*07:06/18/343/419/458 DRB1*03:124/132/137, 13:117/190/215/233 DPB1*126/01, 350/01, 415/01, 417/01, 459/01, 462/01, 464/01, 534/01, 615/01, 616/01, 618/01		
145	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01			02:01	06:03			01:01	04:01			
147	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
149	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01			02:01	06:03			01:01	04:01			
156	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01			02:01:01	06:03:01			01:01:01	04:01:01			
157	3rd	3rd	3rd	3rd		3rd		3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02:01	07:01:01/01/07:01/01/15/0	03:01:01/01/03:01/01/02	13:01:01/01/13/0			02:01:01	06:03:01			01:01:01/01/01:01/01	04:01:01/01/04:01/01/01:02/04/01/01			
165	2nd	2nd	2nd	2nd		2nd		2nd	2nd	01:01:09	68:01	08:01	44:02	02:02	07:01	03:01	13:01											

SAMPLE 4A2 02/2018 DISPATCHED ON 19TH JUNE 2018

ASSESSMENT

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd or 3rd Field Resolution

2nd field	A* 02:01	A* 11:01	B* 15:01	B* 44:03	C* 03:03	C* 16:01	DRB1* 07:01	DRB1* Blank	DRB4* 01:01	DRB4* 01:03N	DOA1* 02:01	DOA1* Blank	DOB1* 02:02	DOB1* 03:03	DPA1* 01:03	DPA1* Blank	DPB1* 03:01	DPB1* 04:01	Acceptable
	02:01/09/66/62	11:01/100/263	15:01/102/104	44:278/280	03:20/62/171/227/341/357	16:58/97/100	07:34/279/8	07:01/34/72									104:01/124:01/669/01/675:01/676:01	126:01/350:01/415:01/459:01/464:01/534:01/615:01/618:01/670:01	Acceptable
	9/642/665/686/6	11:32					07:33	07:33		01:03							350:01	124:01/128:01/178:01/666:01/677:01	Unacceptable

Result Summary

Number Acceptable	34	33	34	34	33	33	38	38	16	15	18	18	36	36	6	6	24	24
Number Unacceptable	1	2	1	1	0	1	2	2	0	0	1	1	1	1	0	0	3	3
Number NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Lab	A*	B*	C*	DRB1*	DRB3/4/5*	DOA1*	DOB1*	DPA1*	DPB1*	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB4*	DRB4*	DOA1*	DOA1*	DOB1*	DOB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	
9	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01						02:02	03:03			03:01/124:01	04:01/350:01		
11	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01		01:01	01:03N	02:01		02:02	03:03	01:03		03:01/124:01	04:01/350:01	DPB1*124:01, 350:01	
12	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	02:01/09/66	11:01/86/100	15:01/102/104	44:03/278/280	03:03/62/171	16:01/58/97	07:01/34/72						02:01/02/04	03:03/31/33			03:01/104:01/124:01	04:01/126:01/350:01		
15	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01/665	11:01	15:01	44:03	03:03/341	16:01/58/97	07:01/34/72						02:02	03:03			03:01/104:01/124:01	04:01/126:01/350:01		
19	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01/629/642/65	11:01	15:01	44:03	03:03/20N/227	16:01/58/97	07:01/34/72					02:01		02:02	03:03			03:01/104:01/124:01	04:01/350:01/415:01/459:01/464:01/534:01/615:01/618:01	
20	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01		01:01	01:03:01:02N	02:01		02:02	03:03	01:03		03:01/104:01/124:01	04:01/350:01/415:01/459:01/464:01/534:01/615:01/618:01		
23	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01						02:02	03:03	01:03		03:01	04:01		
24	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01/11/665/6/86/689	11:01/263	15:01	44:03	03:03	16:01	07:01/79						02:02/97	03:03			03:01	04:01	DPB1*124:01, 350:01	
26	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01/665/686/6/89	11:01/263	15:01	44:03	03:03/341/357	16:01/58/97	07:01/34/72/7						02:02/97	03:03			03:01	04:01		
28	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01/629/642/65	11:01	15:01	44:03	03:03/341	16:01	07:01					02:01		02:02	03:03	01:03		03:01	04:01	
29	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01		01:01	01:03N	02:01		02:02	03:03	01:03		03:01	04:01		
34	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01		01:01	01:03N	02:01		02:02	03:03	01:03		03:01	04:01		
35	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01:01	11:01:01:01	15:01:01:01	44:03:01:01	03:03:01:01	16:01:01:01	07:01:01:01		01:01:01:01	01:03:01:02N	02:01		02:02:01:01	03:03:02:01	01:03:05/09/10/13/14		03:01	04:01		
38	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01		01:01:01	01:03:01N	02:01:01		02:02:01	03:03:02	01:03:01		03:01:01	04:01:01	DPB1*124:01:01, 350:01	
40	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01	11:01	15:01	44:03	03:03	16:01	07:01/79						02:02/97	03:03			03:01	04:01		
41	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01						02:01:01	03:03:01			03:01/128:01/178:01/415:01/464:01/666:01/670:01/677:01	6:01/670:01/677:01		
42	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01:01	15:01:01:01	44:03:01:01	03:03:01:01	16:01:01:01	07:01:01:01/79		01:01:01:01:01	01:03:01:02N	02:01:01		02:02:01:01/97	03:03:02:01	01:03:01:02	01:03:01:03	03:01:01	04:01:01		
45	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01/665/686/6/89	11:01/263	15:01	44:03:01	03:03:01/341/357	16:01:01/111	07:01/34/72/7						02:02:01/97	03:03:02			03:01/104:01/124:01	04:01/350:01		
48	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01/79						02:02/97	03:03			03:01	04:01/464:01		
62	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01:01	15:01:01:01	44:03:01:01	03:03:01:01	16:01:01:01	07:01:01:01		01:01	01:03:01:02N	02:01		02:02/97	03:03			03:01	04:01		
101	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01		01:01:01	01:03:01	02:01:01		02:02:01	03:03:02	01:03:01		03:01:01	04:01:01		
112	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01/09	11:01	15:01	44:03	03:03	16:01	07:01						02:01:01	03:03:01			03:01:01	04:01:01		
113	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01:01G		01:01:01	01:03:01N	02:01:01		02:02:01	03:03:02			03:01:01	04:01:01		
115	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01		01:01	01:03	02:01		02:02	03:03			03:01	04:01		
119	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01						02:02	03:03			03:01	04:01		
123	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01		01:01:01	01:03:01:02N	02:01:01		02:02:01	03:03:02	01:03:01		03:01:01	04:01:01		
126	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01/16	11:01:01:01	15:01:01:01	44:03:01:01/04/10	03:03:01:01/09	16:01:01:01	07:01:01:01/79		01:01:01:01:01	01:03:01:02N	02:01:01		02:02:01	03:03:02	01:03:01:02	01:03:01:03	03:01:01	04:01:01		
130	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01:01	15:01:01:01	44:03:01	03:03:01	16:01:01	07:01:01		01:01:01:01	01:03:01:02N	02:01:01:01	02:01:01:02	02:02:01:01	03:03:02:01	01:03:01:02	01:03:01:03	03:01:01	04:01:01:01		
132	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01:01	15:01:01:01	44:03:01	03:03:01	16:01:01	07:01:01		01:01:01:01	01:03:01:02N	02:01:01:01	02:01:01:02	02:02:01:01	03:03:02:01	01:03:01:02	01:03:01:03	03:01:01	04:01:01:01		
133	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01:01	11:01:01:01	15:01:01:01	44:03:01:01	03:03:01	16:01:01:01	07:01:01:01:02						02:02:01:01	03:03:02:01			03:01:01	04:01:01:01		
141	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01	11:01	15:01	44:03	03:03	16:01	07:01	07:01										03:01	04:01	
142	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01											03:01	04:01	A*02:665 C*03:341 DRB1*07:34/72
145	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01						02:02	03:03			03:01	04:01		
147	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01		01:01	01:03N	02:01:01		02:02:01	03:03:02	01:03:01		03:01/104:01, 124:01, 126:01, 350:01, 351:01, 415:01, 459:01, 464:01, 534:01, 615:01, 618:01			
149	2nd	2nd	2nd	2nd		2nd	2nd	2nd	2nd																				

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd or 3rd Field Resolution

SAMPLE 4A2 03/2018 DISPATCHED ON 19TH JUNE 2018

ASSESSMENT

2nd field	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB3*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Acceptable
24:02/24:02/352/353	26:01/26:11/7	27:05/27:13/162	27:05/Blank	01:02/01:02/42	01:02/Blank	01:02/Blank	01:01/01:50/67/77/82	11:01/11:97	02:02/02:02/Blank	02:02/Blank	01:01/01:12	05:05/05:05	03:01/03:01/264	05:01/05:18/27	01:03/01:03	02:01/02:01	04:01/126:01/459:01/466:01/534:01/615:01/618:01	10:01/650:01/673:01	Acceptable
									02:46:54:66								128:01/178:01/666:01/677:01		Unacceptable
3rd field	24:02:01	26:01:01	27:05:02	27:05:02/BI	01:02:01	01:02:01/Blan	01:01:01	11:01:01	02:02:01	02:02:01/Blan	01:01:01	05:05:01	03:01:01	05:01:01	01:03:01	02:01:01	04:01:01	10:01:01	

Result Summary

Number Acceptable	34	34	34	34	33	33	39	39	15	16	18	18	36	36	6	6	25	26	
Number Unacceptable	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	1	
Number NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Lab	A*	B*	C*	DRB1*	DRB3/4/5*	DQA1*	DQB1*	DPA1*	DPB1*	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB3*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	
9	2nd	2nd	2nd	2nd	17	19	37	7	27	24:02	26:01	27:05		01:02		01:01	11:01					03:01	05:01			04:01	10:01		
11	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	24:02	26:01	27:05		01:02		01:01	11:01	02:02		01:01	05:05	03:01	05:01			04:01	10:01		
12	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	24:02/76/79	26:01/24/26	27:05/13/162		01:02/25/44		01:01/50/67	11:01/97					03:01/09/19	05:01/18/27			04:01/126:01/350:01	10:01/650:01		
15	2nd	2nd	2nd	2nd						24:02/352/353	26:01/11/7	27:05		01:02/85/127		01:01/50/67/77	11:01/97					03:01	05:01						
19	2nd	2nd	2nd	2nd						24:02/352/353	26:01/11/7	27:05		01:02/127		01:01/50/67/77	11:01/97					03:01	05:01						
20	2nd	2nd	2nd	2nd						24:02/352/353	26:01/11/7	27:05		01:02/127		01:01/50/67/77	11:01/97				01:01	05:05	03:01	05:01			04:01/415:01/459:01/464:01/534:01/615:01/618:01	10:01	
23	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	24:02	26:01	27:05		01:02		01:01	11:01	02:02		01:01	05:05	03:01	05:01		01:03	02:01	04:01	10:01	
24	2nd	2nd	2nd	2nd						24:02/353	26:01	27:05/162		01:02		01:01	11:01					03:01	05:01						
26	2nd	2nd	2nd	2nd						24:02/352/353	26:01/11/7	27:05/162		01:02/85/127/142		01:01/50/67/77/82	11:01					03:01	05:01						
28	2nd	2nd	2nd	2nd						24:02/352/353	26:01/11/7	27:05/162		01:02/85/127/142		01:01/50/67/77/82	11:01					03:01	05:01						
29	2nd	2nd	2nd	2nd						24:02/352/353	26:01/11/7	27:05/162		01:02/85/127/142		01:01/50/67/77/82	11:01					03:01	05:01						
34	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01	02:02		01:01	05:05	03:01	05:01			01:03	02:01	04:01	10:01
35	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01	05:05	03:01:01:03	05:01:01:03		01:03:01	02:01:03:08	04:01:01	10:01:01	
38	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01		01:03:01	02:01:01	04:01:01	10:01:01	
39	3rd	3rd	3rd	3rd						24:02/353	26:01	27:05/162		01:02		01:01	11:01				01:01/12	05:05	03:01/264	05:01/18			04:01	10:01	
41	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01				01:01:01	05:05:01	03:01:01	05:01:01			04:01/128:01/178:01/415:01/464:01/666:01/670:01/677:01	10:01/673:01	
42	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01:02		01:01:01	05:05:01	03:01:01	05:01:01		01:03:01:04	02:01:01:08	04:01:01	10:01:01	
45	2nd	2nd	2nd	2nd						24:02/353	26:01	27:05/02/162		01:02/85		01:01/50/67/77/82	11:01/97					03:01:01	05:01:05:01:24						
46	2nd	2nd	2nd	2nd						24:02/353	26:01	27:05/162		01:02		01:01	11:01					03:01	05:01				04:01/464:01	10:01	
62	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01	11:01:01					03:01:01	05:01:01				04:01:01	10:01:01	
101	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01		01:03:01	02:01:01	04:01:01	10:01:01	
112	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01					03:01	05:01						
113	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01				04:01:01	10:01:01	
115	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01					01:01	05:05	03:01	05:01			04:01	10:01
119	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01	02:02				01:01	05:05	03:01	05:01				
123	2nd	2nd	2nd	2nd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01		01:03:01	02:01:01	04:01:01	10:01:01	
126	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01		01:03:01	02:01:01	04:01:01	10:01:01	
130	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02/01/05		01:02:01/01/05		01:01:01	11:01:01	02:02:01:02		01:01:01	05:05:01	03:01:01	05:01:01		01:03:01	02:01:01:08	04:01:01	10:01:01	
132	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01:02		01:01:01:01	05:05:01:09	03:01:01:03	05:01:01:03		01:03:01:04	02:01:01:02	04:01:01	10:01:01:01	
133	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01:01	11:01:01:01	02:02:01:02		01:01:01:01	05:05:01:09	03:01:01:03	05:01:01:03		01:03:01:04	02:01:01:02	04:01:01	10:01:01:01	
141	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01:01	11:01:01:01	02:02:01:02		01:01:01:01	05:05:01:09	03:01:01:03	05:01:01:03		01:03:01:04	02:01:01:02	04:01:01	10:01:01:01	
142	2nd	2nd	2nd	2nd						24:02	26:01	27:05	27:05	01:02	01:02	01:01	11:01					03:01	05:01				04:01	10:01	
145	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01	02:02		01:01	05:05	03:01	05:01				04:01	10:01	
147	2nd	2nd	2nd	2nd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02		01:01	05:05	03:01:01	05:01:01				04:01:01	10:01:01	
149	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01	02:02		01:01	05:05	03:01	05:01				04:01	10:01	
156	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01		01:03:01	02:01:01:08	04:01:01	10:01:01	
157	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02/01:27:05:02:05:02:05		01:02:01/01:01:02:01:05		01:01:01	11:01:01/11:01:02/11:01:03/11:01:04	02:02:01		01:01:01/01:01:05/01:01:05/01:01:05	03:01:01:02/03:01:01:02/03:01								

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd or 3rd Field Resolution

SAMPLE 4A2 04/2018DISPATCHED ON 19TH JUNE 2018

ASSESSMENT

2nd field	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Acceptable
	01:01	24:02	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	02:01	01:01	04:02	Acceptable
01:32/37/23	24:76/79/352/35	08:109/173/182/4/237	183	40:55/141/353	03:100/101/29	07:06/18/153/343/419/458/591/610	03:124/132/137						02:02/04	03:32/85			162:01/417:01/462:01/616:01	105:01/463:01/647:01	Acceptable
	01:09	3		40:03	03:02, 16:01				01:33								03:01/669:01/675:01/676:01	04:01/128:01/178:01/4	Unacceptable
																			15:01/464:01/666:01/670:01/677:01
3rd field	01:01:01	24:02:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01	01:01:02	01:03:02	03:01:01	05:01:01	02:01:01	03:02:01	01:03:01	02:01:02	01:01:01	04:02:01	

Result Summary

Number Acceptable	33	34	34	33	31	33	39	39	15	16	18	18	36	36	6	6	25	25	
Number Unacceptable	2	1	1	2	3	1	1	1	2	1	1	1	1	1	1	1	2	2	
Number NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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
	35	35	34	40	17	19	37	7	27	01:01	24:02	08:01	40:01	03:04	07:01/06/18	03:01	04:04											
9	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02	08:01	40:01	03:04	07:01/06/18	03:01	04:04					02:01	03:02			01:01	04:02	
11	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
12	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01/32/37	24:02/76/79	08:01/109/173	40:01/55/141	03:04/100/101	07:01/06/18	03:01/124/132	04:04					02:01/02/04	03:02/32/85			01:01/162:01/417:01	04:02/105:01/463:01	
15	2nd	2nd	2nd	2nd			2nd		2nd	01:01/234	24:02/352/353	08:01/173	40:01	03:04	07:01	03:01/124/132/137	04:04					02:01	03:02			01:01	04:02	
19	2nd	2nd	2nd	2nd			2nd		2nd	01:01/234	24:02/352/353	08:01/173	40:01	03:04	07:01	03:01/124/132/137	04:04					02:01	03:02			01:01/417:01/462:01/616:01	04:02/463:01	
20	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
23	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02/353	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
24	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02/353	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
26	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02/353	08:01	40:01	03:04/358/359	07:01	03:01/124/132/137	04:04					02:01	03:02			01:01	04:02	
28							2nd		2nd	01:01/234	24:02/352/353	08:01/173	40:01	03:04	07:01/06/18/343/419/458	03:01	04:04					02:01	03:02			01:01	04:02	
29	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
34	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
35	3rd	3rd	3rd	3rd	2nd	2nd	3rd		2nd	01:01/01:01	24:02/01:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01					02:01:01	03:02:01/01			01:01/01:01	04:02:01	
38	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01	24:02/01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01					02:01:01	03:02:01			01:01/01	04:02:01	
39	3rd	3rd	3rd	3rd	3rd	3rd	3rd		3rd	01:01	24:02/353	08:01	40:01	03:04/294	07:01/153	03:01	04:04					02:01	03:02			01:01	04:02	
41	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01	24:02:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01					02:01:01	03:02:01			01:01/01	04:02:01	
42	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01/01	24:02/01/01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01					02:01:01	03:02:01			01:01/01	04:02:01	
45	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02/353	08:01:20	40:01:02	03:04:01/358/359	07:01:01/07:01:02/343/419/458	03:01:01/124/132/137	04:04:01					02:01:01	03:02:01/03:02:26			01:01/462:01/417:01	04:02/463:01	
48	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02/353	08:01	40:01	03:04/294	07:01/153	03:01	04:04					02:01	03:02			01:01	04:02	
62	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01/01	24:02:01/01	08:01:20	40:01:02	03:04:01/01	07:01:01	03:01:01	04:04:01					02:01/01	03:02:01			01:01/01	04:02:01	
101	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01	24:02:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01					02:01/01	03:02:01			01:01/01	04:02:01	
112	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01/01	04:02:01	
113	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01	24:02/01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01					02:01/01	03:02:01			01:01/01	04:02:01	
115	2nd	2nd	2nd	2nd			2nd		2nd	01:01/01	24:02/01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01					02:01/01	03:02:01			01:01/01	04:02:01	
119	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
123	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
126	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01	24:02:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01					02:01/01	03:02:01			01:01/01	04:02:01	
130	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01/01	24:02:01/01	08:01:20	40:01:02	03:04:01/01	07:01:01	03:01:01	04:04:01					02:01/01	03:02:01/26			01:01/01	04:02:01	
132	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01/01	24:02:01/01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01					02:01/01	03:02:01/01			01:01/01	04:02:01	
133	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01/01	24:02:01/01	08:01:20	40:01:02	03:04:01/01	07:01:01/01	03:01:01/01	04:04:01/01					02:01/01	03:02:01/01			01:01/01	04:02:01/01	
141	3rd	3rd	3rd	3rd			3rd		3rd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
142	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
145	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
147	2nd	2nd	2nd	2nd			2nd		2nd	01:01/01	24:02/01	08:01	40:01/02	03:04/01	07:01/01	03:01/01	04:04/01					02:01/01	03:02/01			01:01/01	04:02/01	
149	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
156	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01	24:02:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01					02:01/01	03:02:01/03:02:26			01:01/01	04:02:01	
157	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01/01	24:02:01/01	08:01:20	40:01:02/01/40:01:02	03:04:01/01	07:01:01/01/07:01:01/01:15/07	03:01:01/01/03:01:01	04:04:01/01					02:01/01	03:02:01/03:02:01/02			01:01/01/01/01/01/02:01:01	04:02:01/02:01:01	
165	2nd	2nd	2nd	2nd			2nd		2nd	01:01/09	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	
167	3rd	3rd	3rd	3rd			3rd		3rd	01:01/01/01	24:02:01/01	08:01:20	40:01:02/01/04:01:02	03:04:01/01	07:01:01/01/01:16	03:01	04:04					02:01/01	03:02			01:01	04:02	
178	2nd	2nd	2nd	2nd			2nd		2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02			01:01	04:02	</

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd or 3rd Field Resolution

SAMPLE 4A2 05/2018DISPATCHED ON 19TH JUNE 2018

ASSESSMENT

2nd field	A* 01:01 01:23/37/23 4/237	A* 29:02 29:26/46/95/100	B* 08:01 08:109/173/182/183	B* 44:03 44:278/280	C* 07:01 07:06/18/343/419/45	C* 16:01 16:58/97/100/111	DRB1* 07:01 07:34/72/79/8	DRB1* 11:01 11:97	DRB3* 02:02	DRB4* 01:01	DQA1* 02:01	DQA1* 05:05	DQB1* 02:02 02:01/04/97	DQB1* 03:01 03:09/19	DPA1* 01:03	DPA1* 02:01	DPB1* 01:01 162:01/417:01/616:01	DPB1* 03:01 104:01/124:01	Acceptable Acceptable
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02:01/46/54/66 01:03 only

436:01/481:01/483:01/543:01/ 632:01 439:01/509:01/548:01/ 568:01 Unacceptable

3rd field	01:01:01	29:02:01	08:01:01	44:03:01	07:01:01	16:01:01	07:01:01	11:01:01	02:02:01	01:01:01	02:01:01	05:05:01	02:02:01	03:01:01	01:03:01	01:03:01	01:01:01	03:01:01
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Result Summary
Number Acceptable 33
Number Unacceptable 2
Number NT 0

A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*
33	34	34	34	33	33	39	39	14	15	18	18	36	36	6	6	25	25
2	1	1	1	1	1	1	1	3	2	1	1	1	1	1	1	2	2
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Lab	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination
9	01:01	29:02	08:01	44:03	07:01/06/18	16:01	07:01	11:01					02:02	03:01			01:01	03:01	
11	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01			01:01	03:01	
12	01:01/32/37	29:02/26/46	08:01/109/173	44:03/278/280	07:01/06/18	16:01/58/97	07:01/34/72	11:01/97	02:02	01:01	02:01	05:05	02:01/02/04	03:01/09/19	01:03	02:01	01:01/162:01/417:01	03:01/104:01/124:01	
15	01:01/234	29:02/95	08:01/173	44:03	07:01	16:01/58/97/100	07:01/34/72	11:01/97					02:02	03:01			01:01	03:01	
19	01:01/234	29:02/95	08:01/173	44:03	07:01	16:01/58/97/100	07:01/34/72	11:01/97					02:02	03:01			01:01/417:01/616:01	03:01/104:01	
20	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01	02:01	01:01	02:01	05:05	02:02	03:01	01:03	02:01	01:01	03:01	
23	01:01	29:02/100	08:01	44:03	07:01	16:01	07:01/79	11:01	02:01	01:01	02:01	05:05	02:02/97	03:01			01:01	03:01	
24	01:01	29:02/95/10	08:01/173/183	44:03	07:01/18	16:01/58/97/100	07:01/34/72/7	11:01					02:02/97	03:01			01:01	03:01	
26	01:01	29:02/95/10	08:01/173/183	44:03	07:01/18	16:01/58/97/100	07:01/34/72/7	11:01					02:02/97	03:01			01:01	03:01	
28																			
29	01:01/234	29:02/95	08:01/173	44:03	07:01/06/18/343/419/458	16:01	07:01	11:01					02:02	03:01			01:01	03:01	
34	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01	02:02	01:01	02:01	05:05	02:02	03:01	01:03	02:01	01:01	03:01	
35	01:01/01/01	29:02/01/01	08:01/01	44:03/01	07:01/01	16:01/01	07:01/01	11:01/01	02:02/01	01:01/01/01	02:01	05:05	02:02/01/01	03:01/01/03	01:03/05/06/09-11/13/14	02:01	01:01/01	03:01/01	
38	01:01/01	29:02/01	08:01/01	44:03/01	07:01/01	16:01/01	07:01/01	11:01/01	02:02/01	01:01/01	02:01/01	05:05/01	02:02/01	03:01/01	01:03/01	02:01/02	01:01/01	03:01/01	
39	01:01	29:02/100	08:01	44:03	07:01	16:01	07:01/79	11:01					02:02/97	03:01			01:01	03:01	
41	01:01/01	29:02/01	08:01/01	44:03/01	07:01/01	16:01/01	07:01/01	11:01/01					02:02/01	03:01/01			01:01	03:01	
42	01:01/01/01	29:02/01/01	08:01/01/01	44:03/01	07:01/01	16:01/01	07:01/01/79	11:01/01	02:02/01/02	01:01/01/01	02:01/01	05:05/01	02:02/01/97	03:01/01	01:03/01/03	02:01/02/02	01:01/01	03:01/01	
45	01:01	29:02/95/10	08:01/173/183	44:03/01	07:01/01/07:01/02/34	16:01/01/111	07:01/34/72/7/9/8	11:01/97					02:02/01/97	03:01/01			01:01/417:01	03:01/104:01	
48	01:01	29:02/100	08:01	44:03	07:01	16:01	07:01/79	11:01	02:02/01	01:01	02:01	05:05	02:02/97	03:01			01:01	03:01	
62	01:01/01/01	29:02/01/01	08:01/01/01	44:03/01	07:01/01	16:01/01/01	07:01/01/01	11:01/01	02:02/46/54/66	01:01	02:01/01	05:05/01	02:02/01	03:01/01	01:03/01	02:01/02	01:01/01	03:01/01	
101	01:01	29:02	08:01	44:03	07:01/01	16:01/01	07:01/01	11:01					02:02/01	03:01/01			01:01/01	03:01/01	
112	01:01/01	29:02/01	08:01/01	44:03/01	07:01/01	16:01/01	07:01/01	11:01/01	02:02/01	01:01/01	02:01/01	05:05/01	02:02/01	03:01/01	01:03/01	02:01/02	01:01/01	03:01/01	
113	01:01/01	29:02/01	08:01/01	44:03/01	07:01/01	16:01/01	07:01/01/2	11:01/01	02:02/01	01:01/01	02:01/01	05:05/01	02:02/01	03:01/01	01:03/01	02:01/02	01:01/01	03:01/01	
115	01:01/01	29:02/01	08:01/01	44:03/01	07:01/01	16:01/01	07:01/01/2	11:01/01	02:02/01	01:01/01	02:01/01	05:05/01	02:02/01	03:01/01	01:03/01	02:01/02	01:01/01	03:01/01	
119	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01			01:01	03:01	
123	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01	02:02	01:01	02:01	05:05	02:02	03:01			01:01	03:01	
126	01:01/01	29:02/01	08:01/01	44:03/01	07:01/01	16:01/01	07:01/01	11:01/01	02:02/01	01:01/01	02:01/01	05:05/01	02:02/01	03:01/01	01:03/01	02:01/02	01:01/01	03:01/01	
130	01:01/01/01	29:02/01/01	08:01/01/01	44:03/01/04/10	07:01/01/01/16	16:01/01/01	07:01/01/79	11:01/01	02:02/01/02	01:01/01/01	02:01/01	05:05/01	02:02/01	03:01/01	01:03/01/03	02:01/02/02	01:01/01	03:01/01	
132	01:01/01/01	29:02/01/01	08:01/01/01	44:03/01	07:01/01	16:01/01	07:01/01	11:01/01	02:02/01/02	01:03	02:01/01/01	05:05/01/02	02:02/01/01	03:01/01/03	01:03/01/03	02:01/02	01:01/01	03:01/01	
133	01:01/01/01	29:02/01/01	08:01/01/01	44:03/01/01	07:01/01/01	16:01/01/01	07:01/01/02	11:01/01/01					02:02/01/01	03:01/01/03			01:01/01	03:01/01	
141	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01			01:01	03:01	
142	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01			01:01	03:01	B*08:173 C*07:06/18/343/419/458 DRB1*07:34/72, 11:97 DPB1*417:01, 462:01, 616:01
145	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01			01:01	03:01	
147	01:01/01	29:02/01	08:01/01	44:03/01	07:01/01	16:01/01	07:01/01	11:01/01	02:02	01:01	02:01/01	05:05/01	02:02/01	03:01/01	01:03	02:01	01:01/01	03:01/01	
149	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01	02:02	01:01	02:01	05:05	02:02	03:01			01:01	03:01	
156	01:01/01	29:02/01	08:01/01	44:03/01	07:01/01	16:01/01	07:01/01/79	11:01/01	02:02/01	01:01/01	02:01/01	05:05/01	02:02/01/02/97	03:01/01	01:03/01	02:01/02	01:01/01	03:01/01	
157	01:01/01/01	29:02/01/01	08:01/01/01	44:03/01/01/44:03	07:01/01/01/07:01/01	16:01/01/01	07:01/01/01/10	11:01/01/01/11	02:02/01	01:01/01	02:01/01/01/02	05:05/01/01/05	02:02/01/01	03:01/01/02/03	01:03/01	02:01/02	01:01/01/01/01/01/02/01/01	03:01/01/01/03/01/01/0	
167	01:01/01/01	29:02/01/01	08:01/01/01/02	44:03/01/01/10	07:01/01/01/16	16:01/01/01	07:01/01/01	11:01/01					02:02/01	03:01/01			01:01/01	03:01/01	
178	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01	02:02/01	01:01/01	02:01/01	05:05/01	02:02	03:01	01:03/01	02:01/02	01:01/01	03:01/01	
185	01:01/01	29:02/01	08:01/01	44:03/01	07:01/01	16:01/01	07:01/01	11:01/01	02:02/01	01:01/01	02:01/01	05:05/01	02:02/01	03:01/01	01:03/01	02:01/02	01:01/01	03:01/01	
190	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01	02:02	01:01	02:01	05:05	02:02	03:01	01:03	02:01	01:01	03:01	
196	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01			01:01	03:01	
226	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01		</			

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd or 3rd Field Resolution

SAMPLE 4A2 01/2016 DISPATCHED ON 19TH JUNE 2018

ASSESSMENT

	A* 01:01:01	A* 68:01:02	B* 08:01:01	B* 44:02:01	C* 02:02:02	C* 07:01:01	DRB1* 03:01:01	DRB1* 13:01:01	DRB3* 01:01:02	DRB3* Blank	DQA1* 01:03:01	DQA1* 05:01:01	DQB1* 02:01:01	DQB1* 06:03:01	DPA1* 01:03:01	DPA1* 02:01:02	DPB1* 01:01:01	DPB1* 04:01:01	Acceptable Unacceptable
2nd field	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01	01:01	01:01/Blank	01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
Result Summary																			
Number Acceptable	21	21	21	21	21	21	19	19	9	9	11	11	20	20	8	9	13	13	
Number Unacceptable	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0	0	
Number NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Lab	A* 22	B* 22	C* 22	DRB1* 20	DRB3/4/5* 9	DQA1* 12	DQB1* 21	DPA1* 9	DPB1* 13	A* 01:01	A* 68:01	B* 08:01	B* 44:02	C* 02:02	C* 07:01	DRB1* 03:01	DRB1* 13:01	DRB3* 01:01	DRB3* Blank	DQA1* 01:03	DQA1* 05:01	DQB1* 02:01	DQB1* 06:03	DPA1* 01:03	DPA1* 02:01	DPB1* 01:01	DPB1* 04:01	Cis/trans allele combination
9	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01/06/18	03:01	13:01			01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
11	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01	01:01		01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
12	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01/32/37	68:01/33/36	08:01/109/173	44:02/27/66	02:02/29/69	07:01/06/18	03:01/124/132	13:01/117/190			01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
15	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01/234	68:01/152	08:01/173	44:02	02:02	07:01	03:01/124/132/137	13:01			01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
19	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01/234	68:01/11N/152	08:01/173	44:02/19N	02:02	07:01	03:01/124/132/137	13:01/117/190			01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
20	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01	01:01		01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
23	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01	01:01		01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
24	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01/152	08:01	44:02	02:02	07:01	03:01	13:01			01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
26	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01/152	08:01/173/183	44:02/2S	02:02	07:01	03:01/124/132/137	13:01/233			01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
28	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01	01:01		01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
29	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01/234	68:01/152	08:01/173	44:02	02:02	07:01/06/18/34/3/419/458	03:01	13:01			01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
34	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01	01:01		01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
35	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02	07:01:01	03:01:01	13:01:01	01:01:02		01:03:01/14	05:01:01	02:01:01	06:03:01:01	01:03:01:01	02:01:01	01:01:01	04:01:01	
38	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01	01:01:02		01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	
39	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01/109	68:01/152/164	08:01	44:02	02:02	07:01	03:01	13:01			01:03:01/14	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	
41	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01			01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	
42	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02	07:01:01	03:01:01	13:01:01	01:01:02		01:03:01	05:01:01:02	02:01:01	06:03:01	01:03:01:02	02:01:02:02	01:01:01	04:01:01	
45	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01/152	08:01/183	44:02	02:02:02	07:01/01/07:01:0	03:01/124/132/137	13:01/117/190			01:03:01/14	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	
48	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01/109	68:01/152/164	08:01	44:02	02:02	07:01	03:01	13:01	01:01/25/33		01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	
62	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02:01	07:01:01	03:01:01	13:01:01	01:01:02		01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	
101	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01	01:01:02		01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	
112	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02/27	02:02	07:01	03:01	13:01			01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	
113	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01	01:01:02		01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	
115	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01			01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
119	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01	01:01		01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
123	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01	01:01		01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
126	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	68:01:02	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01	01:01:02		01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	
130	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02:01	07:01:01/01/16	03:01:01	13:01:01	01:01:02		01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	02:01:02	01:01:01	04:01:01	
132	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	68:01:02:01	08:01:01	44:02:01	02:02:02	07:01:01	03:01:01	13:01:01:02	01:01:02		01:03:01:02	05:01:01:02	02:01:01	06:03:01:01	01:03:01:02	02:01:02	01:01:01	04:01:01	
133	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02:01	07:01:01:01	03:01:01:01	13:01:01:02	01:01:02		01:03:01:02	05:01:01:02	02:01:01	06:03:01	01:03:01:02	02:01:02	01:01:01	04:01:01	
141	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	68:01:02:01	08:01:01:01	44:02:01:01	02:02:02:01	07:01:01:01	03:01:01:01	13:01:01:02	01:01:02		01:03:01:02	05:01:01:02	02:01:01	06:03:01	01:03:01:02	02:01:02	01:01:01	04:01:01	
142	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01			01:03	05:01	02:01	06:03	01:03	02:01	01:01	04:01	
145	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	68:01	08:01	44:02	02:02	07:01	03:01	13:01	01:01		01:03	05:01	02:01	06:03	01:03				

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd or 3rd Field Resolution

SAMPLE 4A2 02/2018 DISPATCHED ON 19TH JUNE 2018

ASSESSMENT

3rd field	A* 02:01:01	A* 11:01:01	B* 15:01:01	B* 44:03:01	C* 03:03:01	C* 16:01:01	DRB1* 07:01:01	DRB1* 07:01:01/Blank	DRB4* 01:01:01	DRB4* 01:03:01N	DOA1* 02:01:01	DOA1* 02:01:01/Blank	DOB1* 02:02:01	DOB1* 03:03:02	DPA1* 01:03:01	DPA1* 01:03:01/Blank	DPB1* 03:01:01	DPB1* 04:01:01	Acceptable
2nd field	02:01	11:01	15:01	44:03	03:03	16:01	07:01	07:01/Blank	01:01	01:03N	02:01	02:01/Blank	02:02	03:03	01:03	01:03/Blank	03:01	04:01	Unacceptable

Result Summary
Number Acceptable 21
Number Unacceptable 1
Number NT 0

Lab	A* 22	B* 22	C* 22	DRB1* 20	DRB3/4/5* 9	DOA1* 12	DOB1* 21	DPA1* 9	DPB1* 13	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB4*	DRB4*	DOA1*	DOA1*	DOB1*	DOB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination
9	2nd	2nd	2nd	2nd						02:01	11:01	15:01	44:03	03:03	16:01	07:01						02:02	03:03			03:01/124:01	04:01/350:01	
11	2nd	2nd	2nd	2nd																						03:01	04:01	
12	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01		01:01	01:03N	02:01		02:02	03:03	01:03		03:01	04:01	
15	2nd	2nd	2nd	2nd						02:01/09/66	11:01/86/100	15:01/102/104	44:03/278/280	03:03/62/171	16:01/58/97	07:01/34/72						02:01/02/04	03:03/31/33			03:01/104:01/124:01	04:01/126:01/350:01	
19	2nd	2nd	2nd	2nd						02:01/665	11:01	15:01	44:03	03:03/341	16:01/58/97/100	07:01/34/72						02:02	03:03					
20	2nd	2nd	2nd	2nd						02:01/629/642/665	11:01	15:01	44:03	03:03/20N/227	16:01/58/97/100	07:01/34/72						02:01	02:02	03:03			03:01/104:01/124:01	04:01/350:01/415:01/45
23	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01		01:01	01:03:01:02N	02:01		02:02	03:03	01:03		03:01	04:01	
24	2nd	2nd	2nd	2nd						02:01/01L/665/686/689	11:01/263	15:01	44:03	03:03	16:01	07:01/79						02:02/97	03:03			03:01	04:01	
26	2nd	2nd	2nd	2nd						02:01/665/686/689	11:01/263	15:01	44:03	03:03/341/357	16:01/58/97/100/111/112	07:01/34/72/79						02:02/97	03:03			03:01	04:01	
28	2nd	2nd	2nd	2nd																						03:01	04:01	
29	2nd	2nd	2nd	2nd						02:01/629/642/665	11:01	15:01	44:03	03:03/341	16:01	07:01						02:02	03:03			03:01	04:01	
34	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	02:01	11:01	15:01	44:03	03:03	16:01	07:01		01:01	01:03N	02:01		02:02	03:03	01:03		03:01	04:01	
35	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01:01	11:01:01:01	15:01:01:01	44:03:01:01	03:03:01:01	16:01:01:01	07:01:01:01		01:01:01:01	01:03:01:02N	02:01		02:02:01:01	03:03:02:01	01:03:01:02		03:01	04:01	
38	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01		01:01:01	01:03:01N	02:01:01		02:02:01	03:03:02	01:03:01		03:01:01	04:01:01	DPB1*124:01:350:01
39	2nd	2nd	2nd	2nd						02:01	11:01	15:01	44:03	03:03	16:01	07:01/79						02:02/97	03:03			03:01	04:01	
41	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01					02:01:01	02:02:01	03:03:02			03:01	04:01	
42	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01:01	15:01:01:01	44:03:01:01	03:03:01:01	16:01:01:01	07:01:01:07/79		01:01:01:01	01:03:01:02N	02:01:01		02:02:01:02/97	03:03:02:01	01:03:01:02	01:03:01:03	03:01:01	04:01:01	
45	2nd	2nd	2nd	2nd						02:01/665/686/689	11:01/263	15:01	44:03:01	03:03:01/341/357	16:01/01/111	07:01/34/72/79/81						02:02:01/37	03:03:02			03:01/104:01/124:01	04:01/350:01	
48	2nd	2nd	2nd	2nd						02:01	11:01	15:01	44:03	03:03	16:01	07:01/79						02:02/97	03:03			03:01	04:01/464:01	
62	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01:01	15:01:01:01	44:03:01:01	03:03:01:01	16:01:01:01	07:01:01:01		01:01:01	01:03:01:02N	02:01:01		02:02:01	03:03:02	01:03:01:02	01:03:01:03	03:01:01	04:01:01	
101	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01		01:01:01	01:03:01	02:01:01		02:02:01	03:03:02	01:03:01		03:01:01	04:01:01	
112	2nd	2nd	2nd	2nd						02:01/09	11:01	15:01	44:03	03:03	16:01	07:01										03:01:01	04:01:01	
113	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01G		01:01:01	01:03:01N			02:02:01	03:03:02			03:01:01	04:01:01	
115	2nd	2nd	2nd	2nd						02:01	11:01	15:01	44:03	03:03	16:01	07:01						02:02	03:03			03:01	04:01	
119	2nd	2nd	2nd	2nd						02:01	11:01	15:01	44:03	03:03	16:01	07:01		01:01	01:03			02:02	03:03			03:01	04:01	
123	2nd	2nd	2nd	2nd						02:01	11:01	15:01	44:03	03:03	16:01	07:01						02:02	03:03			03:01	04:01	
126	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01		01:01:01	01:03:01:02N	02:01:01		02:02:01	03:03:02	01:03:01		03:01:01	04:01:01	
130	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01/16	11:01:01:01	15:01:01:01	44:03:01:01/44:03:01:01/44:03:01:01/10	03:03:01:01/09	16:01:01:01	07:01:01/07:79		01:01:01:01	01:03:01:02N	02:01:01		02:02:01	03:03:02	01:03:01:02	01:03:01:03	03:01:01	04:01:01	
132	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01:01	15:01:01:01	44:03:01	03:03:01	16:01:01	07:01:01		01:01:01:01	01:03:01:02N	02:01:01:01	02:01:01:02	02:02:01:01	03:03:02:01	01:03:01:02	01:03:01:03	03:01:01	04:01:01	
133	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01:01	11:01:01:01	15:01:01:01	44:03:01:01	03:03:01:01	16:01:01:01	07:01:01:02						02:02:01:01	03:03:02:01			03:01:01	04:01:01:01	
141	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd																			
142	2nd	2nd	2nd	2nd						02:01	11:01	15:01	44:03	03:03	16:01	07:01	07:01					02:02	03:03			03:01	04:01	
145	2nd	2nd	2nd	2nd						02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01			01:01	01:03N	02:01		02:02	03:03			03:01/124:01	04:01/350:01
147	2nd	2nd	2nd	2nd						02:01	11:01	15:01	44:03	03:03	16:01	07:01						02:02	03:03			03:01	04:01	
149	2nd	2nd	2nd	2nd						02:01	11:01	15:01	44:03	03:03	16:01	07:01		01:01	01:03N	02:01		02:02	03:03			03:01	04:01	
156	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01	11:01:01	15:01:01	44:03:01	03:03:01	16:01:01	07:01:01/07:79		01:01:01	01:03:01:02N	02:01:01		02:02:01/02:97	03:03:02	01:03:01		03:01:01	04:01:01	
157	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01:01/02:01:01:16	11:01:01:01	15:01:01:01	44:03:01:01/44:03:01:01/44:03:01:01/10	03:03:01:01/03:03:01:01/03:03:01:01/10	16:01:01:01	07:01:01:01/07:01:01:02					02:01:01:01:02	01:01:02				03:01:01/03:01:01	04:01:01/04:01:01/02	
165	2nd	2nd	2nd	2nd						02:01	11:01/32	15:01	44:03	03:03	16:01	07:01/33	07:01/33	01:01	01:03N	02:01	02:01	02:02	03:03	01:03	01:03	03:01	04:01	
167	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	02:01:01/16	11:01:01:01	15:01:01:01	44:03:01:01/10	03:03:01:01/09	16:01:01:01							02:02	03:03			03:01	04:01	
178	2nd	2nd	2nd	2nd																								

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd or 3rd Field Resolution

SAMPLE 4A2 03/2018 DISPATCHED ON 19TH JUNE 2018

ASSESSMENT

3rd field	A* 24:02:01	A* 26:01:01	B* 27:05:02	B* 27:05:02/BI	C* 01:02:01	C* 01:02:01/Blan	DRB1* 01:01:01	DRB1* 11:01:01	DRB3* 02:02:01	DRB3* 02:02:01/Blan	DQA1* 01:01:01	DQA1* 05:05:01	DOB1* 03:01:01	DOB1* 05:01:01	DPA1* 01:03:01	DPA1* 02:01:01	DPB1* 04:01:01	DPB1* 10:01:01	Acceptable Acceptable Unacceptable	
2nd field	24:02	26:01	27:05	27:05/Blank	01:02	01:02/Blank	01:01	11:01	02:02	02:02/Blank	01:01	05:05	03:01	05:01	01:03	02:01	04:01	10:01		
Result Summary																				
Number Acceptable	21	21	21	21	21	21	19	19	9	9	11	11	20	20	8	9	13	13		
Number Unacceptable	1	1	1	1	1	1	1	1	0	0	1	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	0	0	0	0	

Lab	A* 22	B* 22	C* 20	DRB1* 20	DRB3/4/5* 9	DQA1* 12	DOB1* 21	DPA1* 9	DPB1* 13	A* 21	A* 20	B* 21	B* 20	C* 21	C* 20	DRB1* 21	DRB1* 20	DRB3* 21	DRB3* 20	DQA1* 21	DQA1* 20	DOB1* 21	DOB1* 20	DPA1* 21	DPA1* 20	DPB1* 21	DPB1* 20	Cis/trans allele combination
9	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01			01:01	05:05	03:01	05:01			04:01	10:01	
11	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	24:02	26:01	27:05		01:02		01:01	11:01	02:02		01:01	05:05	03:01	05:01	01:03	02:01	04:01	10:01	
12	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	24:02/76/79	26:01/24/26	27:05/13/16/2		01:02/25/44		01:01/50/67	11:01/97			01:01/50/67	05:05	03:01/09/19	05:01/18/27			04:01/126:01/350:01	10:01/650:01	
15	2nd	2nd	2nd	2nd						24:02/352/353	26:01/117	27:05		01:02/85/127		01:01/50/67/77	11:01/97			01:01/50/67/77	05:05	03:01	05:01			04:01/415:01/459:01/464:01/53	10:01	
19	2nd	2nd	2nd	2nd						24:02/352/353	26:01/117	27:05		01:02/127		01:01/50/67/77	11:01/97			01:01/50/67/77	05:05	03:01	05:01			04:01/615:01/618:01	10:01	
20	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01	02:02		01:01	05:05	03:01	05:01	01:03	02:01	04:01	10:01	
23	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	24:02/353	26:01	27:05/162		01:02		01:01	11:01			01:01	05:05	03:01	05:01	01:03	02:01	04:01	10:01	
24	2nd	2nd	2nd	2nd						24:02/352/353	26:01/117	27:05/162		01:02/85/127/142		01:01/50/67/77/82	11:01			01:01	05:05	03:01	05:01			04:01	10:01	
26	2nd	2nd	2nd	2nd						24:02/352/353	26:01/117	27:05/162		01:02/85/127/142		01:01/50/67/77/82	11:01			01:01	05:05	03:01	05:01	01:03	02:01	04:01	10:01	
28	2nd	2nd	2nd	2nd						24:02/352/353	26:01/117	27:05/162		01:02/85/127/142		01:01/50/67/77/82	11:01			01:01	05:05	03:01	05:01	01:03	02:01	04:01	10:01	
29	2nd	2nd	2nd	2nd						24:02/352/353	26:01/117	27:05/162		01:02/85/127/142		01:01/50/67/77/82	11:01			01:01	05:05	03:01	05:01	01:03	02:01	04:01	10:01	
34	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01	02:02		01:01	05:05	03:01	05:01	01:03	02:01	04:01	10:01	
35	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01	05:05	03:01:01:03	05:01:01:03	01:03:05:06:09/10/13/14	02:01:03:08	04:01:01	10:01:01	
38	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01	01:03:01	02:01:01	04:01:01	10:01:01	
39	2nd	2nd	2nd	2nd						24:02/353	26:01	27:05/162		01:02		01:01	11:01			01:01/12	05:05	03:01/09/19	05:01/18/27			04:01	10:01	
41	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01			01:01:01	05:05:01	03:01:01	05:01:01			04:01/128:01/178:01/415:01/46	10:01/673:01	
42	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01:02		01:01:01	05:05:01	03:01:01	05:01:01	01:03:01:04	02:01:01:02:08	04:01:01	10:01:01	
45	2nd	2nd	2nd	2nd						24:02/353	26:01	27:05/02/162		01:02/85		01:01/50/67/77/82	11:01/97			01:01/50/67/77/82	05:05	03:01/01	05:01/01/05:01/24			04:01	10:01	
48	2nd	2nd	2nd	2nd						24:02/353	26:01	27:05/162		01:02		01:01	11:01			01:01	05:05	03:01	05:01	01:03	02:01	04:01/464:01	10:01	
62	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01:02		01:01:01	05:05:01	03:01:01	05:01:01			04:01:01	10:01:01	
101	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01	01:03:01	02:01:01	04:01:01	10:01:01	
112	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01			01:01	05:05	03:01	05:01			04:01:01	10:01:01	
113	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01			04:01:01	10:01:01	
115	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01			01:01	05:05	03:01	05:01			04:01	10:01	
119	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01	02:02		01:01	05:05	03:01	05:01			04:01	10:01	
123	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01			01:01	05:05	03:01	05:01			04:01	10:01	
126	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01	01:03:01	02:01:01	04:01:01	10:01:01	
130	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02/01/05		01:02:01:01/05		01:01:01	11:01:01	02:02:01:02		01:01:01	05:05:01	03:01:01	05:01:01	01:03:01	02:01:01/02:08	04:01:01	10:01:01	
132	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01:02		01:01:01:01	05:05:01:09	03:01:01:03	05:01:01:03	01:03:01:04	02:01:01:02	04:01:01	10:01:01:01	
133	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01	11:01:01:01			01:01:01:01	05:05:01:09	03:01:01:03	05:01:01:03	01:03:01:04	02:01:01:02	04:01:01	10:01:01:01	
141	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02		01:02:01		01:01:01	11:01:01:01			01:01:01:01	05:05:01:09	03:01:01:03	05:01:01:03	01:03:01:04	02:01:01:02	04:01:01	10:01:01:01	
142	2nd	2nd	2nd	2nd						24:02	26:01	27:05	27:05	01:02	01:02	01:01	11:01			01:01	05:05	03:01	05:01			04:01	10:01	
145	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01			01:01	05:05	03:01	05:01			04:01	10:01	
147	2nd	2nd	2nd	2nd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02		01:01:01	05:05:01	03:01:01	05:01:01			04:01:01	10:01:01	
149	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01	02:02		01:01	05:05	03:01	05:01			04:01	10:01	
156	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02		01:02:01		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01/05:01:24	01:03:01	02:01:01/02:08	04:01:01	10:01:01	
157	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02/01/27:0	5:02:05	01:02:01/01:01:02	01:05	01:01:01	11:01:01/11:01:02/11:01:03/11:01:04			01:01:01:01:01:01:01:05	05:05:01:01:02:03:05	03:01:01:02:03:05	05:01:01:02:05:01:24	01:03:01	02:01:01/02:08	04:01:01/01:04:01:01/02:04:01:01/04:01:01/04:01:01/05:04:01:01/06/04:01:01/14:04:01:01/15:04:01:01/16/04:01:01/17:04:01:01/26	10:01:01:01	
165	2nd	2nd	2nd	2nd						24:02	26:01	27:05	27:05	01:02	01:02	01:01	11:01	02:02		01:01	05:05	03:01	05:01	01:03	02:01	04:01	10:01	
167	3rd	3rd	3rd	3rd						24:02:01:01	26:01:01:01	27:05:02/01/05		01:02:01:01/05		01:01:01	11:01:01	02:02:01		01:01:01	05:05:01	03:01:01	05:01:01	01:03:01	02:01:01	04:01:01	10:01:01	
178	2nd	2nd	2nd	2nd						24:02	26:01	27:05		01:02		01:01	11:01			01:01	05:05	03:01	05:01			04:01	10:01	
185	3rd	3rd	3rd	3rd						24:02:01	26:01:01	27:05:02	</															

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd or 3rd Field Resolution

SAMPLE 4A2 04/2016 DISPATCHED ON 19TH JUNE 2018

ASSESSMENT

3rd field	A* 01:01:01	A* 24:02:01	B* 08:01:20	B* 40:01:02	C* 03:04:01	C* 07:01:01	DRB1* 03:01:01	DRB1* 04:04:01	DRB3* 01:01:02	DRB4* 01:03:02	DQA1* 03:01:01	DQA1* 05:01:01	DQB1* 02:01:01	DQB1* 03:02:01	DQB1* 03:02:26	DPA1* 01:03:01	DPA1* 02:01:02	DPB1* 01:01:01	DPB1* 04:02:01	Acceptable Acceptable Unacceptable
2nd field	01:01	24:02	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	02:01	01:01	04:02	
Result Summary																				
Number Acceptable	21	21	21	21	21	21	19	19	9	8	11	11	20	20		8	9	13	13	
Number Unacceptable	1	1	1	1	1	1	1	1	0	1	1	1	1	1		0	0	0	0	
Number NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	

Lab	A* 22	B* 22	C* 22	DRB1* 20	DRB3/4/5* 9	DQA1* 12	DQB1* 21	DPA1* 9	DPB1* 13	A* 22	A* 24:02:01	B* 08:01:20	B* 40:01:02	C* 03:04:01	C* 07:01:01	DRB1* 03:01:01	DRB1* 04:04:01	DRB3* 01:01:02	DRB4* 01:03:02	DQA1* 03:01:01	DQA1* 05:01:01	DQB1* 02:01:01	DQB1* 03:02:01	DQB1* 03:02:26	DPA1* 01:03:01	DPA1* 02:01:02	DPB1* 01:01:01	DPB1* 04:02:01	Cis/trans allele combination	
9	2nd	2nd	2nd	2nd						01:01	24:02	08:01	40:01	03:04	07:01/06/18	03:01	04:04					02:01	03:02				01:01	04:02		
11	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	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	02:01	01:01	04:02		
12	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01/32/37	24:02/76/79	08:01/109/173	40:01/55/141	03:04/100/101	07:01/06/18	03:01/124/132	04:04					02:01/02/04	03:02/32/85				01:01/182:01/4	04:02/105:01/463:01		
19	2nd	2nd	2nd	2nd						01:01/234	24:02/352/353	08:01/173	40:01	03:04	07:01	03:01/124/132/137	04:04			03:01	05:01	02:01	03:02				01:01/417:01/4	04:02/463:01		
20	2nd	2nd	2nd	2nd						01:01/234	24:02/352/353	08:01/173	40:01	03:04	07:01	03:01/124/132/137	04:04					02:01	03:02				01:01/417:01/4	04:02/463:01		
23	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	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	02:01	01:01	04:02		
24	2nd	2nd	2nd	2nd						01:01	24:02/353	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02				01:01	04:02		
26	2nd	2nd	2nd	2nd						01:01	24:02/353	08:01	40:01	03:04/358/359	07:01	03:01/124/132/137	04:04					02:01	03:02				01:01	04:02		
28	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01/234	24:02/352/353	08:01/173	40:01	03:04	07:01/06/18/343/419/458	03:01	04:04					02:01	03:02				01:01	04:02		
29	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	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	02:01	01:01	04:02		
34	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02				01:01	04:02		
35	3rd	3rd	3rd	2nd	2nd	2nd	3rd	2nd	2nd	01:01:01:01	24:02:01:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01	01:01:02	01:03:02	03:01:01	05:01:01	02:01:01	03:02:01:01		01:03:01	02:01:01	01:01:01	04:02:01		
38	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	24:02:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01	01:01:02	01:03:02	03:01:01	05:01:01	02:01:01	03:02:01		01:03:01	02:01:02	01:01:01	04:02:01		
39	2nd	2nd	2nd	2nd						01:01	24:02/353	08:01	40:01	03:04/294	07:01/153	03:01	04:04					02:01	03:02				01:01	04:02		
41	3rd	3rd	3rd	3rd						01:01:01	24:02:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01					02:01:01	03:02:01				03:01/689:01/4	04:01/128:01/178:01/4	04:02:01	
42	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	24:02:01:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01	01:01:02	01:03:02	03:01:01	05:01:01:02	02:01:01	03:02:01/03:02:26		01:03:01	02:01:02	01:01:01	04:02:01		
45	2nd	2nd	2nd	2nd						01:01	24:02/353	08:01:20	40:01:02	03:04:01/358/359	07:01:01/07:01:02/343/419/458/591/610	03:01/124/132/137	04:04:01					02:01:01	03:02:01/03:02:26				01:01/462:01/4	04:02/463:01		
48	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02/353	08:01	40:01	03:04/294	07:01/153	03:01	04:04					02:01	03:02				01:01	04:02		
62	3rd	3rd	3rd	3rd	2nd	2nd	3rd	3rd	3rd	01:01:01:01	24:02:01:01	08:01:20	40:01:02	03:04:01:01	07:01:01	03:01:01	04:04:01	01:01:02	01:03:02	03:01:01	05:01:01	02:01:01	03:02:01		01:03:01	02:01:02	01:01:01	04:02:01		
101	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	24:02:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01	01:01:02	01:03:02	03:01:01	05:01:01	02:01:01	03:02:01		01:03:01	02:01:02	01:01:01	04:02:01		
112	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04	01:01:02	01:03:02			02:01:01	03:02:01G				01:01:01	04:02:01		
113	3rd	3rd	3rd	3rd	2nd	2nd	3rd	2nd	2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01:01	03:02:01				01:01	04:02		
115	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02				01:01	04:02		
119	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02				01:01	04:02		
123	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	08:01	40:01	03:02	07:01	03:01	04:04	01:01	01:03			02:01	03:02				01:01	04:02		
126	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	24:02:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01	01:01:02	01:03:02	03:01:01	05:01:01	02:01:01	03:02:01		01:03:01	02:01:02	01:01:01	04:02:01		
130	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	24:02:01:01	08:01:20	40:01:02	03:04:01:01	07:01:01	03:01:01	04:04:01	01:01:02	01:03:02	03:01:01	05:01:01	02:01:01	03:02:01/01		01:03:01	02:01:02	01:01:01	04:02:01		
132	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	24:02:01:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01:01	04:04:01	01:01:02	01:03:02	03:01:01	05:01:01:02	02:01:01	03:02:01:01		01:03:01:05	02:01:02	01:01:01	04:02:01		
133	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	24:02:01:01	08:01:20	40:01:02:01	03:04:01:01	07:01:01:01	03:01:01:02	04:04:01					02:01:01	03:02:01:01				01:01:01	04:02:01:02		
141	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02				01:01	04:02		
142	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04					02:01	03:02				01:01	04:02		
145	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04	01:01	01:03	03:01:01	05:01:01	02:01:01	03:02:01				01:01	04:02		
147	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01:01	24:02:01	08:01	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01	01:01	01:03	03:01:01	05:01:01	02:01:01	03:02:01				01:01:01	04:02:01		
149	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01	24:02	08:01	40:01	03:04	07:01	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02				01:01	04:02		
156	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	24:02:01	08:01:20	40:01:02	03:04:01	07:01:01	03:01:01	04:04:01	01:01:02	01:03:02	03:01:01	05:01:01	02:01:01	03:02:01/03:02:26		01:03:01	02:01:02	01:01:01	04:02:01		
157	3rd	3rd	3rd	3rd						01:01:01:01	24:02:01:01	08:01:20	40:01:02:01/40:01:02:04/01:02:06	03:04:01:01	07:01:01:01/07:01:01:15/01:02:04/01:02:06	03:01:01:01/03:01:01:03/01:02:03:01:01:03	04:04:01					02:01:01	03:02:01/03:02:01:02				01:01:01:01/01:01:02:01:0	04:02:01:02/04:02:01:05		
165	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01/09	24:02	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	02:01	01:01	04:02		
167	3rd	3rd	3rd	2nd	2nd	2nd	2nd	2nd	2nd	01:01:01	24:02:01:01	08:01:20	40:01:02:01																	

SAMPLE 4A2 05/2018 DISPATCHED ON 19TH JUNE 2018

ASSESSMENT

UK NEQAS for H&I Scheme 4A2 - HLA Typing at 2nd or 3rd Field Resolution

3rd field	A* 01:01:01	A* 29:02:01	B* 08:01:01	B* 44:03:01	C* 07:01:01	C* 16:01:01	DRB1* 07:01:01 07:79	DRB1* 11:01:01	DRB3* 02:02:01	DRB4* 01:01:01	DQA1* 02:01:01	DQA1* 05:05:01	DQB1* 02:02:01 02:97	DQB1* 03:01:01	DPA1* 01:03:01	DPA1* 02:01:02	DPB1* 01:01:01	DPB1* 03:01:01	Acceptable Acceptable Unacceptable
2nd field	01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01	02:02	01:01	02:01	05:05	02:02	03:01	01:03	02:01	01:01	03:01	
Result Summary																			
Number Acceptable	21	21	21	21	21	21	19	19	9	8	11	11	20	20	8	9	13	13	
Number Unacceptable	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	0	
Number NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Lab	A* 22	B* 22	C* 22	DRB1* 20	DRB3/4/5* 9	DOA1* 12	DOB1* 21	DPA1* 9	DPB1* 13	A* 01:01	A* 29:02	B* 08:01	B* 44:03	C* 07:01/06/18	C* 16:01	DRB1* 07:01	DRB1* 11:01	DRB3* 02:02	DRB4* 01:01	DQA1* 02:01	DQA1* 05:05	DQB1* 02:02	DQB1* 03:01	DPA1* 01:03	DPA1* 02:01	DPB1* 01:01	DPB1* 03:01	Cis/trans allele combination	
9	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01/06/18	16:01	07:01	11:01												
11	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01												
12	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	2nd	01:01/32/37	29:02/26/46	08:01/09/173	44:03/278/280	07:01/06/18	16:01/58/97	07:01/34/72	11:01/97	02:02	01:01	02:01	05:05	02:02	03:01	01:03	02:01	01:01	03:01		
15	2nd	2nd	2nd	2nd						01:01/234	29:02/95	08:01/173	44:03	07:01	16:01/58/97/100	07:01/34/72	11:01/97					02:02	03:01						
19	2nd	2nd	2nd	2nd						01:01/234	29:02/95	08:01/173	44:03	07:01	16:01/58/97/100	07:01/34/72	11:01/97					02:02	03:01						
20	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:01	05:05	02:02	03:01	01:03	02:01	01:01	03:01
23	2nd	2nd	2nd	2nd						01:01	29:02/100	08:01	44:03	07:01	16:01	07:01/79	11:01					02:01	01:03	02:01	05:05	02:02/97	03:01	01:03	03:01
24	2nd	2nd	2nd	2nd						01:01	29:02/95/10	08:01/173/183	44:03	07:01/18	16:01/58/97/100/1	07:01/34/72/79	11:01					02:02/97	03:01						
26	2nd	2nd	2nd	2nd						01:01	29:02/95/10	08:01/173/183	44:03	07:01/18	16:01/58/97/100/1	07:01/34/72/79	11:01					02:02/97	03:01						
28																						02:01	05:05			01:03	02:01	01:01	03:01
29	2nd	2nd	2nd	2nd						01:01/234	29:02/95	08:01/173	44:03	07:01/06/18/343/419/458	16:01	07:01	11:01					02:02	03:01						
34	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01			01:03	02:01	01:01	03:01
35	3rd	3rd	3rd	2nd						01:01:01:01	29:02:01:01	08:01:01	44:03:01	07:01:01	16:01:01	07:01:01	11:01:01	02:02:01	01:01:01:01	02:01	05:05	02:02:01:01	03:01:01:03	01:03:05/06/09-11/13/14	02:01	01:01:01	03:01:01		
38	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	29:02:01	08:01:01	44:03:01	07:01:01	16:01:01	07:01:01	11:01:01	02:02:01	01:01:01	02:01:01	05:05:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	03:01:01		
39	2nd	2nd	2nd	2nd						01:01	29:02/100	08:01	44:03	07:01	16:01	07:01	11:01					02:02/97	03:01						
41	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	29:02:01	08:01:01	44:03:01	07:01:01	16:01:01	07:01:01	11:01:01	02:02:01	01:01:01	02:01:01	05:05:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	03:01:01		
42	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	29:02:01:01	08:01:01:01	44:03:01	07:01:01	16:01:01	07:01:01/07:79	11:01:01	02:02:01:02	01:01:01:01	02:01:01	05:05:01	02:02:01:02/97	03:01:01	01:03:01:03	02:01:02:02	01:01:01	03:01:01		
45	2nd	2nd	2nd	2nd						01:01	29:02/95/10	08:01/173/183	44:03:01	07:01/06/18/343/419/458/591/610	16:01/01/111	07:01/34/72/79/81	11:01/97					02:02/97	03:01						
48	2nd	2nd	2nd	2nd						01:01	29:02/100	08:01	44:03	07:01	16:01	07:01/79	11:01					02:02/97	03:01						
62	3rd	3rd	3rd	3rd						01:01:01:01	29:02:01:01	08:01:01:01	44:03:01	07:01:01	16:01:01:01	07:01:01	11:01:01	02:02:01:02	01:01:01:01			02:02:01	03:01:01	01:03:01:03	02:01:02	01:01:01	03:01:01		
101	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	29:02:01	08:01:01	44:03:01	07:01:01	16:01:01	07:01:01	11:01:01	02:02:01	01:01:01	02:01:01	05:05:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	03:01:01		
112	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01						
113	3rd	3rd	3rd	3rd	2nd	2nd	3rd			01:01:01	29:02:01	08:01:01	44:03:01	07:01:01	16:01:01	07:01:01G	11:01:01	02:02:01	01:01:01			02:02:01	03:01:01			01:01:01	03:01:01		
115	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01						
119	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:01	05:05	02:02	03:01				
123	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01	02:02	01:01			02:02	03:01						
126	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	29:02:01	08:01:01	44:03:01	07:01:01	16:01:01	07:01:01	11:01:01	02:02:01	01:01:01	02:01:01	05:05:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	03:01:01		
130	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	29:02:01:01	08:01:01:01	44:03:01:01/04/10	07:01:01:01/16	16:01:01:01	07:01:01/07:79	11:01:01	02:02:01:02	01:01:01:01	02:01:01	05:05:01	02:02:01	03:01:01	01:03:01:03	02:01:02:02	01:01:01	03:01:01		
132	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	29:02:01:01	08:01:01:01	44:03:01	07:01:01	16:01:01	07:01:01	11:01:01:03	02:02:01:02	01:01:01:01	02:01:01:01	05:05:01:02	02:02:01:01	03:01:01:03	01:03:01:03	02:01:02	01:01:01	03:01:01		
133	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01:01	29:02:01:01	08:01:01:01	44:03:01:01	07:01:01:01	16:01:01:01	07:01:01:02	11:01:01:01					02:02:01:01	03:01:01:03			01:01:01	03:01:01		
141	3rd	3rd	3rd	3rd						01:01:01:01	29:02:01:01	08:01:01:01	44:03:01:01	07:01:01:01	16:01:01:01	07:01:01:02	11:01:01:01												
142	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:01	05:05	02:02	03:01			01:01	03:01
145	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:01	05:05	02:02	03:01			01:01	03:01
147	2nd	2nd	2nd	2nd						01:01:01	29:02:01	08:01:01	44:03:01	07:01:01	16:01:01	07:01:01	11:01:01	02:02	01:01	02:01:01	05:05:01	02:02:01	03:01:01			01:01:01	03:01:01		
149	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01						
156	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	29:02:01	08:01:01	44:03:01	07:01:01	16:01:01	07:01:01/07:79	11:01:01	02:02:01	01:01:01	02:01:01	05:05:01	02:02:01/02:97	03:01:01	01:03:01	02:01:02	01:01:01	03:01:01		
157	3rd	3rd	3rd	3rd						01:01:01:01	29:02:01:01	08:01:01:01	44:03:01:01/44:03:01:01/04:03:01:10	07:01:01:01/07:01:01:15/07:01:01:16	16:01:01:01	07:01:01:01/07:79/1:01:02/11:01:03	11:01:01:01/11:01:01:01/1:01:02/11:01:03	02:02:01:02	01:01:01:01	02:01:01:01	05:05:01:01/05:05:01:09	02:02:01:01	03:01:01:02/03:01:01:03	01:03:01:03	02:01:02	01:01:01	03:01:01		
165	2nd	2nd	2nd	2nd						01:01/09	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:02	03:01			01:03	02:01	01:01	03:01
167	3rd	3rd	3rd	3rd						01:01:01:01	29:02:01:01	08:01:01:01/02	44:03:01:01/10	07:01:01:01/16	16:01:01:01							02:01	05:05	02:02	03:01	01:03	02:01	01:01	03:01
178	2nd	2nd	2nd	2nd						01:01	29:02	08:01	44:03	07:01	16:01	07:01	11:01					02:01	05:05	02:02	03:01			01:01	03:01
185	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	3rd	01:01:01	29:02:01	08:01:01	44:03:01	07:01:01	16:01:01	07:01:01													