

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

SAMPLES 4A2 06-10/2016

DISPATCHED ON 05TH JULY 2016

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									IMGT/HLA allele database release	Source of Primers and Probes			Kit manufacturer	Detection method	Comments	
			HLA-A	HLA-B	HLA-C	HLA-DRB1	HLA-DRB3,4,5	HLA-DQA1	HLA-DQB1	HLA-DPA1	HLA-DPB1		Commercial Kits	Own Design	Other				
9	06-Jul	07-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SSP/LUM	LUM	SBT/LUM		SSP/SBT			Yes			SSP - Dynal, SSO - One Lambda, SBT - Invitrogen	Gel, Fluorescence	
11	05-Jul	02-Aug									SSP			Yes	Yes			Gel	
12	06-Jul	12-Jul	SBT	SBT	SBT	SBT			SBT		SBT			Yes			One Lambda Secore sequencing kits	Gel	
15	06-Jul	11-Jul	SBT	SBT	SBT	SBT			SBT		SSP			Yes	Yes		DPB1: Olerup SSP	Gel, Fluorescence	
19	08-Jul	13-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SSP/SBT/LUM		SBT/LUM		SBT/LUM			Yes	Yes		Luminex - Immucor	Gel, Fluorescence	
20	06-Jul	07-Jul	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP	SSP/SBT	SSP/SBT		SSP/SBT			Yes	Yes		ThermoFisher Secore DRB1 SBT Kit	Gel	
23	06-Jul	08-Aug	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM		SBT		LUM	SSP/SBT/LUM			Yes			One Lambda, Omixon, ReadyGene, AllSet	Gel, Fluorescence	
24	07-Jul	27-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM			SBT/LUM		SBT/LUM			Yes			Immucor, GenDx	Gel, Fluorescence	
26	25-Jul	25-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SSP/SBT/LUM			SBT/LUM		LUM			Yes	Yes		One Lambda	Fluorescence	
28	07-Jul	11-Jul						SSP/LUM		SSP/LUM	SSP/LUM			Yes			One Lambda	Gel, Fluorescence	
29	07-Jul	11-Jul	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT			SSP/SBT		SSP/SBT			Yes			ThermoFisher/Secore/Invitrogen, Olerup	Gel, Fluorescence	
34	06-Jul		SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM			Yes			Olerup, One Lambda, GenDx	Gel, Fluorescence	
35	06-Jul	01-Aug	SSOP/SBT/LUM	SSOP/SBT/LUM	SSOP/SBT/LUM	SSOP/SBT/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM	SSOP/SBT/LUM	SSOP/SBT/LUM	SSOP/SBT/LUM			Yes			One Lambda, ThermoFisher, Olerup, GenDx	Gel, Fluorescence	
38	06-Jul	07-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	LUM	SSP/LUM	SBT/LUM	SSP/LUM	SSP/SBT/LUM			Yes			LABType RSSO, One Lambda, Conexio	Gel, Fluorescence	
39	06-Jul	27-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	LUM	SSP/LUM	SBT/LUM	LUM	SBT			Yes			One Lambda, GenDx	Gel, Fluorescence	
41	06-Jul	25-Jul				SBT/LUM		SBT/LUM	SBT/LUM		SBT/LUM			Yes			One Lambda, Omixon	Fluorescence	
42	06-Jul	14-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM			SBT/LUM		SBT/LUM			Yes			One Lambda, GenDx	Fluorescence	
45	06-Jun	18-Jul	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT		SSP/SBT		SSP/SBT			Yes	Yes			Gel	
48	07-Jul	15-Aug	SBT/LUM	SSP/SBT/LUM	SBT/LUM	SBT/LUM			SBT/LUM		SSP			Yes			Life Technologies, Immucor	Gel, Fluorescence	
51	06-Jul	20-Jul									LUM			Yes			Immucor	Gel, Fluorescence	
62	07-Jul	15-Aug	SSP/SBT/TGS	SSP/SBT/TGS	SSP/SBT/TGS	SSP/SBT/TGS	SSP/SBT/LUM		SSP/SBT/TGS		SSP/SBT/TGS			Yes		Yes	One Lambda, Olerup, Lifetech	Gel, Fluorescence	
101	06-Jul	25-Jul	SBT/LUM	SBT/LUM		SBT/LUM			SBT/LUM		SBT/LUM			Yes			Protrans for SBT & One Lambda for Luminex	Fluorescence	
109	06-Jul	27-Jul							SSP/SSOP/LUM					Yes			Olerup SSP DQ high	Fluorescence	
112	08-Jul	13-Jul	LUM	LUM		LUM								Yes			One Lambda	Fluorescence	
113	06-Jul	08-Jul	SSP/LUM/NGS	SSP/LUM/NGS	SSP/LUM/NGS	SSP/LUM/NGS	SSP		SSP/LUM/NGS					Yes			One Lambda, Olerup, GenDx	Gel, Fluorescence	
115	06-Jul	08-Jul	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP	SSP	SSP		SSP			Yes			Olerup - SSP, GenDx - SBT	Gel	
119	06-Jul	13-Jul	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT	SSP/SBT/LUM	SSP/LUM		SSP/LUM		SSP			Yes				Gel, Fluorescence	
123	07-Jul	08-Aug	SSP	SSP	SSP	SSP	SSP		SSP		SSP			Yes			One Lambda	Gel, Fluorescence	
126	11-Jul	08-Aug	SSP/SBT	SSP/SBT	SSP	SSP/SBT	SSP	SSP	SSP		SSP	SSP		Yes			Olerup, Conexio, Freemantle, AUS	Gel, Fluorescence	
128	07-Jul	12-Jul	LUM	LUM	LUM	SSP/LUM			LUM					Yes			One Lambda, Olerup	Gel, Fluorescence	
130	07-Jul	11-Jul	SSP/SBT	SSP/SBT	SBT	SSP/SBT	SBT	SBT	SSP/SBT		SBT	SBT		Yes			SBTcellerator, GenDx, Olerup	Gel, Fluorescence	
132	08-Nov		SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS	SSP/NGS		SSP/NGS		SSP/NGS			Yes			Olerup, Holotype (Omixon)	Gel, Illumina Miseq	
133	11-Jul	19-Jul	SBT/LUM	SSP/SBT/LUM	SBT/LUM	SSP/SBT/LUM			SBT/LUM					Yes				Gel, Fluorescence	
141		16-Aug	SSP	SSP	SSP	SSP	SSP		SSP		SSP			Yes			Olerup	Gel	
142	07-Jul	11-Jul	SBT	SBT	SBT	SBT			SBT		SBT			Yes			Protrans	Fluorescence	
145	07-Jul	06-Aug	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM		SSP/LUM			Yes			Luminex - One Lambda, Olerup, One Lambda	Gel	
147	06-Jul	16-Aug	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP		SSP/LUM		SSP/LUM			Yes	Yes		One Lambda - SSO, Olerup - SSP	Gel, Fluorescence	
149	07-Jul	12-Jul	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP	SSP		SSP		SSP			Yes			Protrans, One Lambda, Uni Tray, Olerup, Invitrogen	Gel	
150			LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS		LUM/NGS					Yes			One Lambda, GenDx	Fluorescence	
156	06-Jul		SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP		SSP		SSP			Yes	Yes		Olerup, SBT Class I - Own design, Conexio	Gel, ABI3730	
157	06-Jul	13-Jul	NGS	NGS	NGS	NGS			NGS					Yes			GenDx	Fluorescence	
164	11-Jul	16-Jul	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP		SSP		SSP			Yes			SBT Celera-Abbott, SSP - Olerup	Gel, Fluorescence	
165		01-Aug	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP		SSP/SSOP			Yes				Gel, Fluorescence	
178	08-Jul	29-Aug	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP		SSP		SSP			Yes			Invitrogen, Olerup, One Lambda, Lifecodes	Gel	
185	06-Jul	11-Jul	SBT	SSP/SBT	SSP/SBT	SBT	SBT		SBT		SSP/SBT			Yes			Protrans Domino, Olerup SSP	Gel, Fluorescence	
196	15-Jul	10-Aug				SSP	SSP		SSP		SSP			Yes			Protrans, Olerup	Gel	
223	07-Jul	14-Jul				SSP	SSP		SSP		SSP			Yes			Olerup	Gel	
225	11-Jul	18-Jul				SSP	SSP		SSP		SSP			Yes			Olerup	Gel	
232	13-Jul	25-Jul				SSP/LUM			SSP/LUM					Yes			SSP - Olerup, SSP/Luminex - Tepnel Lifecodes	Gel, Fluorescence	
242	11-Jul	29-Jul	SBT	SBT	SBT	SBT			SBT		SBT			Yes				Fluorescence	
245	06-Jul	19-Jul	SBT/NGS	SBT/NGS	SBT/NGS	SBT/NGS	SSP		SBT		SSP			Yes			SSP - Olerup, SBT - Protrans, NGS - GenDX	Gel, Fluorescence	
248		31-Aug	SSOP/LUM	SSOP/LUM	SSOP/LUM	SSOP/LUM			SSOP/LUM					Yes			Immucor	Gel, Fluorescence	
259	11-Jul	11-Aug	SSP	SSP	SSP	SSP			SSP					Yes			Olerup	Gel	
260	08-Jul	04-Aug	SBT	SBT	SBT	SBT			SBT		SBT			Yes			GenDx-AlleleSEQR	Gel	
267	07-Jul	28-Jul	SBT	SBT	SBT	SBT			SBT		SBT			Yes			Protrans	Fluorescence	
268	11-Jul	29-Jul	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	SSP		LUM/NGS		SSP/NGS			Yes			Olerup, One Lambda, GenDX	Gel, Fluorescence, Ion Torrent	
273	06-Jul	27-Jul	SSP/SSOP/SBT	SSP/SSOP/SBT	SSP/SSOP/SBT	SSOP/SBT	SSP	SSP/SSOP	SSOP/SBT		SSP			Yes			Protrans, One Lambda, Olerup	Gel, Fluorescence	
304	06-Jul	06-Jul	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM			SSP/LUM					Yes			Ingen Bionobis	Gel, Fluorescence	
312	08-Jul	28-Jul	SBT	SBT	SBT	SBT			SBT		SBT			Yes			Secore Express, Invitrogen	Fluorescence	
328	21-Jul	02-Aug	SBT	SBT	SBT	SBT			SBT		SBT			Yes			Illumina, Histogenetics	Fluorescence, NGS	
331	08-Jul	11-Jul							Other					Yes			BAG Healthcare Histospot DQB1/DQA1	Colourimetric reaction	
332	11-Jul	12-Jul	SBT	SBT	SBT	SBT			SBT		SBT			Yes			One Lambda	Fluorescence	
351	13-Jul	14-Jul	LUM	LUM	LUM	LUM	LUM	LUM	LUM	LUM	LUM			Yes			One Lambda, Immucor	Fluorescence	

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SAMPLE 4A2 06/2016 DISPATCHED ON 05TH JULY 2016

RESULTS

Lab No.	A* res	B* res	C* res	DRB3/4/5* res	DRB1* res	DQA1* res	DQB1* res	DPA1* res	DPB1* res	A*	B*	C*	C*		
9	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02:19N	05:01	07:01/06:18
11	2nd field	2nd field	2nd field	2nd field	2nd field										
12	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02:02S	05:01	07:01/06:18/34/3419/458
15	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:32/37	03:01/20/26	08:01/109	44:02/27/66	05:01/03/37	07:01/06:18
19	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
20	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
23	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
24	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
26	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02:02S	05:01	07:01
28	2nd field	2nd field	2nd field	2nd field	2nd field										
29	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01/14/19/458
34	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
35	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01	03:01:01:01	08:01:01	44:02:01:01	05:01:01:02	07:01:01:01
38	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
39	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
41	2nd field	2nd field	2nd field	2nd field	2nd field										
42	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01/06:18/34/3419
45	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01	03:01:01:01	08:01	44:02	05:01:01	07:01/343
48	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01/06:18/34/3419/458
51	2nd field	2nd field	2nd field	2nd field	2nd field										
62	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01	03:01:01:01	08:01:01	44:02:01:01	05:01:01	07:01:01:01
101	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
109	2nd field	2nd field	2nd field	2nd field	2nd field										
112	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02:27		
113	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01	03:01:01:01	08:01:01	44:02:01:01	05:01:01:02	07:01:01:01
116	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
119	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
123	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
126	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
128	2nd field	2nd field	2nd field	2nd field	2nd field					01	03	08	44	05	07
130	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01	03:01:01:01	08:01:01	44:02:01	05:01:01	07:01:01
132	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01	03:01:01:01	08:01:01	44:02:01:01	05:01:01:02	07:01:01:01
133	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
141	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
142	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01/06:18
145	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
147	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01:01:01:03	03:01:01:01:03:03:01:01:07:03:01:58	08:01:01:01:01:01:02	44:02:01:01:44:02:01:03	05:01:01:01:05:01:01:02	07:01:01:01:01
149	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
150	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01	03:01:01:01	08:01:01	44:02:01:01	05:01:01:02	07:01:01:01
156	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01	03:01:01:01	08:01:01	44:02	05:01	07:01
157	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01	03:01:01:01	08:01:01	44:02:01:01	05:01:01:02	07:01:01:01
164	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
165	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01/06:18
176	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
185	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01/06:18/34/3419/458
196	2nd field	2nd field	2nd field	2nd field	2nd field										
223	2nd field	2nd field	2nd field	2nd field	2nd field										
225	2nd field	2nd field	2nd field	2nd field	2nd field										
232	2nd field	2nd field	2nd field	2nd field	2nd field										
242	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
245	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
248	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
259	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
260	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01	03:01:01:01	08:01	44:02:01	05:01	07:01
267	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01/06:18/34/3419/458
268	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01	03:01:01:01	08:01:01	44:02:01:01	05:01:01:02	07:01:01:01
273	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01/06:18/34/3419
304	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01
312	2nd field	2nd field	2nd field	2nd field	2nd field					01:01/04N/22N/32/37/45/56N/81B/7N/103/107/109/132/141/142/155	03:01/20/21N/26/37/45/78/112/118/129N/132/134/162N/182/220	08:01/19N/109	44:02/19N/27/66/118/187	05:01/03/37/53/93/108	07:01/06:18/52/153/166/337/343/419/458
328	2nd field	2nd field	2nd field	2nd field	2nd field					01:01:01:01:01:01:01:02N	03:01:01:01:03:01:01:02N/03:01:01:03	08:01:01/08:01:20	44:02:01:01/44:02:01:02S/44:02:01:03/44:02:27/44:19N	05:01:01:01/05:01:01:02	07:01:01:01/07:01:01:01:02/07:01:02/07:06:18/34/3419
331	2nd field	2nd field	2nd field	2nd field	2nd field					01:01/06/17	03:01/08/153	08:01/02/23	44:02/09/19N/206	05:01/04	07:01/06/18/28
332	2nd field	2nd field	2nd field	2nd field	2nd field					01:01	03:01	08:01	44:02	05:01	07:01

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Lab No.	DRB1*	DRB1*	DRB3*	DRB5*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	Comment
9	03:01	15:01	01:01	01:01			02:01	06:02			03:01	04:01		
11											03:01	04:01		
12	03:01	15:01					02:01	06:02			03:01	04:01	A*01:98, 03:150 C*05:25, 07:16, C*05:76, 07:165 DPB1*124:01, 350:01	
15	03:01/124	15:01					02:01/02/04	06:02/09/11			03:01	04:01		
19	03:01	15:01					02:01	06:02			03:01	04:01		
20	03:01	15:01					02:01	06:02			03:01/04:01/124:01	04:01/350:01/459:01/464:01		
23	03:01	15:01					02:01	06:02			03:01	04:01		
24	03:01	15:01					02:01	06:02	01:03		03:01	04:01	DPB1*124:01, 350:01	
26	03:01/124	15:01					02:01	06:02			03:01	04:01		
28									01:03		03:01	04:01		
29	03:01	15:01					02:01	06:02			03:01	04:01		
34	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02	01:03		03:01	04:01		
35	03:01:01	15:01:01	01:01:02	01:01/16/17	01:02/13	05:01	02:01:01	06:02:01	01:03/13		03:01	04:01		
38	03:01	15:01					02:01	06:02			03:01	04:01		
39	03:01	15:01					02:01	06:02			03:01	04:01	A*01:98, 03:150 DPB1*124:01, 350:01	
41	03:01	15:01					02:01	06:02			03:01	04:01		
42	03:01	15:01					02:01	06:02			03:01	04:01	A*01:98, 03:150 DPB1*124:01, 350:01	
45	03:01	15:01					02:01:01	06:02:01			03:01/04:01/124:01	04:01:01		
48	03:01	15:01					02:01	06:02			03:01	04:01/464:01		
51											03:01	04:01		
62	03:01:01	15:01:01	01:01:02	01:01/16			02:01:01	06:02:01			03:01:01	04:01:01:01		
101	03:01	15:01					02:01	06:02			03:01	04:01	B*44:02/19N C*07:01/06/18/343/419/458 DRB1*103:01/214 DPB1*104:01/124:01/350:01/459:01/464:01	
109							02:01	06:02						
112	03:01	15:01					02:01:01	06:02:01						
113	03:01:01	15:01:01	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
116	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
119	03:01	15:01					02:01	06:02			03:01	04:01		
123	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
126	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02	01:03		03:01	04:01		
128	03:01	15:01					02:01	06:02						
130	03:01:01	15:01:01	01:01:02	01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01		03:01:01/03:01:08/124:01	04:01:01/04:01:31/350:01		
132	03:01:01:01	15:01:01:01					02:01:01	06:02:01			03:01:01	04:01:01:01		
133	03:01	15:01					02:01	06:02			03:01	04:01		
141	03:01	15:01					02:01	06:02			03:01	04:01		
142	03:01	15:01					02:01	06:02			03:01	04:01		
145	03:01	15:01					02:01	06:02			03:01	04:01		
147	03:01:01:01:01/03:01:01:02/03:01:08/03:124/132	15:01:01:01:15:01:01:01:02/15:01:01:03/15:01:01:04/15:01:17	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
149	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
150	03:01:01:01:02	15:01:01:01/02/03/04					02:01:01	06:02:01			03:01/124:01	04:01		
156	03:01:01	15:01:01					02:01	06:02			03:01/124:01	04:01		
157	03:01:01:03:01:01:02	15:01:01:01/15:01:01:02/15:01:01:03/15:01:01:04	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
164	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
165	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
176	03:01	15:01					02:01	06:02	01:03	01:03	03:01	04:01		
185	03:01/124	15:01	01:01/16	01:01/16			02:01	06:02			03:01/35:101	04:01/350:01/415:01/459:01/464:01/534:01		
196	03:01	15:01					02:01	06:02			03:01	04:01		
223	03:01	15:01					02:01	06:02			03:01	04:01		
225	03:01	15:01					02:01	06:02			03:01	04:01		
232	03:01	15:01					02:01	06:02			03:01	04:01		
242	03:01	15:01					02:01	06:02			03:01	04:01		
245	03:01	15:01	01:01	01:01			02:01	06:02			03:01	04:01		
248	03:01	15:01					02:01	06:02			03:01	04:01		
259	03:01	15:01					02:01	06:02			03:01	04:01		
260	03:01	15:01					02:01:01	06:02:01			03:01:01	04:01:01	DPB1*124:01, 350:01	
267	03:01/124	15:01					02:01	06:02			03:01	04:01		
268	03:01:01	15:01:01	01:01	01:01	01:02	05:01	02:01:01	06:02:01			03:01:01	04:01:01		
273	03:01/124	15:01	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
304	03:01	15:01					02:01	06:02			03:01	04:01		
312	03:01/124	15:01					02:01	06:02			03:01	04:01	B*08:71 C*07:05, 08:02:01G DQB1*02:05, 06:124	
328	03:01:01:01:03:01:01:02	15:01:01:01/15:01:01:02/15:01:01:03/15:01:01:04					02:01:01/02:01:08/02:02:01/02:02:02/02:04/02:06/02:09/02:10/02:48	06:02:01/06:02:12/06:02:23/06:47/06:84/06:109/06:111/06:116/06:117/06:127						
331							02:01	06:02						
332	03:01/15	15:01/37					02:01/05	06:02/24						
351	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02	01:03	01:03	03:01	04:01		

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

SAMPLE 4A2 07/2016

Lab No.	DRB1*	DRB1*	DRB5*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	Comment
9	15:01		01:01			06:02				04:01	04:01		
11										04:01	04:01		
12	15:01					06:02				04:01	04:01	A*02:20, 03:157, A*02:26, 03:07	
15	15:01					06:02/09/111				04:01	04:01		
19	15:01		01:01/16			06:02				04:01	04:01		
20	15:01		+	01:02/11		06:02				04:01/350:01415:01459:01/464:01	04:01		
23	15:01			01:02		06:02		01:03		04:01	04:01		
24	15:01					06:02				04:01	04:01		
26	15:01					06:02				04:01	04:01		
28				01:02				01:03		04:01	04:01		
29	15:01					06:02							
34	15:01		01:01	01:02		06:02		01:03		04:01	04:01		
35	15:01/01		01:01/16/17	01:02/13		06:02/01		01:03/13		04:01	04:01		
38	15:01			01:02		06:02				04:01	04:01		
39	15:01			01:02		06:02				04:01	04:01		
41	15:01	15:01				06:02		06:02		04:01	04:01	04:01	
42	15:01					06:02				04:01	04:01		
45	15:01					06:02/01				04:01/01	04:01/01		
48	15:01					06:02				04:01/464:01	04:01		
51						06:02				04:01	04:01		
62	15:01/01		01:01/16			06:02/01				04:01/01/01	04:01		
101	15:01					06:02				04:01	04:01		B*07:02/61/161N C*07:02/260/340 DPB1*416/01425:01426:01427:01
109						06:02							
112	15:01					06:02/01							
113	15:01/01		01:01			06:02/01				04:01	04:01		
115	15:01		01:01	01:02		06:02				04:01	04:01		
119	15:01			01:02		06:02				04:01	04:01		
123	15:01		01:01			06:02				04:01	04:01		
126	15:01		01:01	01:02		06:02		01:03		04:01	04:01		
128	15:01					06:02				04:01/01	04:01/01		
130	15:01/01		01:01/01	01:02/01		06:02/01		01:03/01		04:01/01	04:01/01		
132	15:01/01/15:01/01:02/15:01/01:03/15:01/02:03/15:01/01:04		01:01/01	01:02/01		06:02/01				04:01/01/01	04:01/01/01		
133	15:01					06:02				04:01	04:01		
141	15:01			01:02		06:02				04:01	04:01		
142	15:01					06:02				04:01	04:01		
145	15:01			01:02		06:02				04:01	04:01		
147	15:01/01/15:01/01:02/15:01/01:03/15:01/01:04/15:01/17		01:01			06:02				04:01	04:01		
148	15:01		01:01	01:02		06:02				04:01	04:01		
150	15:01/01/01/02/03/04					06:02/01				04:01	04:01		
156	15:01/01					06:02				04:01	04:01		
157	15:01/01/15:01/01:02/15:01/01:03/15:01/01:04		01:01/01	01:02/01		06:02/01				04:01	04:01		
164	15:01		01:01	01:02		06:02				04:01	04:01		
165	15:01		01:01	01:02	01:02	06:02		06:02	01:03	01:03	04:01	04:01	
178	15:01			01:02		06:02				04:01	04:01		
185	15:01		01:01/16			06:02				04:01/126:01/350:01415:01459:01/464:01/534:01	04:01		
196	15:01			01:02		06:02				04:01	04:01		
223	15:01			01:02		06:02				04:01	04:01		
225	15:01					06:02				04:01	04:01		
232	15:01					06:02				04:01	04:01		
242	15:01					06:02				04:01	04:01		
245	15:01	15:01	01:01			06:02		06:02		04:01	04:01		
248	15:01/24					06:02		06:02		04:01	04:01		
259	15:01					06:02				04:01	04:01		
260	15:01					06:02/01		06:02/01		04:01/01	04:01/01		
267	15:01					06:02				04:01/01	04:01/01		
268	15:01/01		01:01			06:02/01				04:01/01	04:01/01		
273	15:01		01:01	01:02		06:02				04:01	04:01		
304	15:01					06:02				04:01	04:01		
312	15:01					06:02				04:01	04:01		
326	15:01/01/15:01/01:02/15:01/01:03/15:01/01:04					06:02/01/06:02/12/06:02/23/06:47/06:84/06:109/06:111/06:116/06:117/06:127				04:01	04:01		
331						06:02				04:01	04:01		
332	15:01	15:01				06:02				04:01	04:01		
351	15:01	15:01	01:01	01:02	01:02	06:02		06:02	01:03	01:03	04:01	04:01	

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

SAMPLE 4A2 08/2016 DISPATCHED ON 05TH JULY 2016

RESULTS

Lab No.	A* res	B* res	C* res	DRB1* res	DRB3/4/5* res	DQA1* res	DQB1* res	DPA1* res	DPB1* res	A*	B*	C*
9	2nd field	2nd field	2nd field	2nd field	2nd field					31.01	40.01	03.04
11	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	49.01	07.01/06/18
12	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01L	49.01	03.04
15	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/08/66	31.01/23/46	40.01/55/141
19	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01/55/141/50	49.01
20	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01
23	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01
24	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01
26	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
28	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
29	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01
34	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01
35	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01.01.01	31.01/02.01	40.01/02
38	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01
39	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01
41	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01
42	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01L	31.01	40.01
45	2nd field	2nd field	2nd field	2nd field	2nd field					02.01.01	31.01/02	40.01
48	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01
51	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
62	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01.01	31.01/02.01	40.01/02
101	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01
109	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
112	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/09	31.01	40.01
113	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01.01	31.01/02.01	40.01/02
115	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
119	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
123	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01
126	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
128	2nd field	2nd field	2nd field	2nd field	2nd field					02	31	49
130	2nd field	2nd field	2nd field	2nd field	2nd field					02.01.01	31.01/02.01/02	40.01/02
132	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01.01	31.01/02.01	49.01/01
133	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
141	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
142	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
145	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
147	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01.01/02.01.01/03.02.01.01/05.02.01.01/06.02.02.01	31.01/02.01	40.01/02.01/45
149	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01/02.01	49.01/01
150	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01.01	31.01/02.01	40.01/02
156	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01/02	40.01/299/301
157	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01.01	31.01/02.01	49.01/01
164	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
165	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
178	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
185	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
186	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
223	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
225	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
232	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
245	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
248	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
259	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
260	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01	31.01/02	40.01
267	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
268	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01.01	31.01/02.01	49.01/01
273	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
304	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
312	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/09/43/66/75/83N/89/97/132/134/140/241/252/256/266/291/294/305/327/329/356N/357/397/411/446/456/469/481/538/559	31.01/14N/23/46/48/55/59/7/172/81/95	40.01/55/141/150/151/179/221/247/264/272/276/299/301
329	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/01.01/02.01.01/01.02L/02.01.01/03.02.01.01-04	31.01/02.01/31.01/02.02	40.01/01/40.01/02
331	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	31.01	40.01
332	2nd field	2nd field	2nd field	2nd field	2nd field					02.01/20	31.01/02	40.01/63
351	2nd field	2nd field	2nd field	2nd field	2nd field					02.01	40.01	49.01

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

SAMPLE 4A2 08/2016

Lab No.	DRB1*	DRB1*	DRB4*	DQA1*	DQA1*	DOB1*	DOB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/Trans allele combination	Comment
9	01:01	07:01	03:01N			02:02	05:04			03:01	04:01		
11	01:01	07:01				02:02	05:04			03:01	04:01		
12	01:01	07:01				02:02	05:04			03:01	04:01		
15	01:01/50/67	07:01/34				02:01/02/04	05:04			03:01	04:01		
19	01:01/50/67	07:01/34	01:01/03/06/09			02:02	05:04			03:01	04:01		
20	01:01	07:01		01:02/11	02:01	02:02	05:04			03:01	04:01		
23	01:01	07:01		01:02	02:01	02:02	05:04	01:03	03:01/104:01/124:01	04:01/350:01/415:01/459:01/464:01	04:01		
24	01:01	07:01				02:02	05:04			03:01	04:01		
26	01:01/50/67	07:01/34				02:02	05:04			03:01	04:01		
28				01:02	02:01			01:03		03:01	04:01		
29	01:01	07:01				02:02	05:04			03:01	04:01		
34	01:01	07:01	01:01	01:02	02:01	02:02	05:04	01:03		03:01	04:01		
35	01:01/01	07:01/01	01:01	01:02	02:01	02:02/01:01	05:04	01:03/13		03:01	04:01		
38	01:01	07:01		01:02	02:01	02:02	05:04			03:01	04:01		
39	01:01	07:01		01:02	02:01	02:02	05:04			03:01	04:01		
41	01:01	07:01				02:02	05:04			03:01	04:01		
42	01:01	07:01				02:02	05:04			03:01	04:01		
45	01:01/50	07:01/01				02:02	05:04			03:01/104:01/124:01	04:01:01		
48	01:01	07:01				02:02	05:04			03:01	04:01/464:01		
51										03:01	04:01		
62	01:01/01	07:01/01	01:01:01:01			02:02/01:01	05:04			03:01/01	04:01:01:01		
101	01:01	07:01				02:02	05:04			03:01	04:01		
109						02:02	05:04						
112	01:01	07:01				02:02	05:04						
113	01:01/01	07:01/01	01:01/03:01N			02:02:01	05:04						
115	01:01	07:01	01:01	01:02	02:01	02:02	05:04			03:01	04:01		
119	01:01	07:01		01:02	02:01	02:02	05:04			03:01	04:01		
123	01:01	07:01	01:01			02:01	05:04						
126	01:01	07:01	01:01	01:02	02:01	02:02	05:04	01:03		03:01	04:01		
128	01:01	07:01				02:02	05:04						
130	01:01/01	07:01/01	01:01:01:01	01:02:01	02:01	02:02/01:01	05:04	01:03:01	03:01/01/03:01/09/124:01	04:01/01/04:01/31/350:01	04:01:01:01		
132	01:01/01	07:01/01/07:01:01:02		01:02:01:03	02:01:01:01	02:02/01:01	05:04		03:01/01		04:01:01:01		
133	01:01	07:01				02:02	05:04						
141	01:01	07:01		01:02	02:01	02:02	05:04			03:01	04:01		
142	01:01/50/67	07:01				02:01/02	05:04						
145	01:01	07:01		01:02	02:01	02:02	05:04			03:01	04:01		
147	01:01/01/50/67	07:01/01/01/07:01:01:01/03/07:01:18/07:34	01:01			02:02	05:04			03:01	04:01		
148	01:01	07:01		01:02	02:01	02:02	05:04			03:01	04:01		
150	01:01/01	07:01/01/02/03				02:02/01:01	05:04						
156	01:01/01	07:01/01				02:02	05:04			03:01/124:01	04:01		
157	01:01/01	07:01/01/07:01:01:02				02:02/01:01	05:04						
164	01:01	07:01	01:01	01:02	02:01	02:02	05:04			03:01	04:01		
165	01:01	07:01	01:01	01:02	02:01	02:02	05:04	01:03	01:03	03:01	04:01		
178	01:01	07:01		01:02	02:01	02:02	05:04			03:01	04:01		
185	01:01/50/67	07:01/34	01:01/03/06/09			02:02	05:04			03:01/351:01	04:01/350:01/415:01/459:01/464:01/534:01		
223	01:01	07:01		01:02	02:01	02:02	05:04			03:01	04:01		
225	01:01	07:01				02:02	05:04			03:01	04:01		
232	01:01	07:01				02:02	05:04						
242	01:01	07:01				02:01	05:04						
245	01:01	07:01	01:01			02:02	05:04			03:01	04:01		
248	01:01	07:01				02:02	05:04						
259	01:01	07:01				02:02	05:04						
260	01:01/01	07:01/01				02:01/01	05:04						
267	01:01/50/67	07:01/34				02:01	05:04						
268	01:01/01	07:01/01	01:01			02:02/01:01	05:04			03:01/01	04:01:01		
273	01:01/50/67	07:01/34	01:01	01:02	02:01	02:02	05:04			03:01	04:01		
304	01:01	07:01				02:02	05:04						
312	01:01/50/67	07:01/34				02:02	05:04						
328	01:01/01	07:01/01/07:01:01:02				02:01:01/02:01:08/02:02:01:02/02:02/02:04/02:06/02:09/02:10/02:48	05:04						
331						02:02	05:04						
332	01:01/07	07:01/23				02:01/02	05:04						
351	01:01	07:01	01:03	01:02	02:01	02:02	05:04	01:03	01:03	03:01	04:01		

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

SAMPLE 4A2 09/2016 DISPATCHED ON 05TH JULY 2016

RESULTS

Lab No.	A* res	B* res	C* res	DRB1* res	DRB3/4/5* res	DQA1* res	DQB1* res	DPA1* res	DPB1* res	A*	A*	B*	B*	C*	C*
9	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01:42	39:01	04:01:09N/82	12:03:143
11	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01:42	39:01/01L	04:01:00/82/226	12:03:143/167
12	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01:42	39:01/01L	04:01:00/82/226	12:03:143/167
15	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01/20/26		35:01/42/57	39:01/46/59	04:01/28/30	12:03:23/109
19	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01/226	12:03:143/167
20	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01/120N		35:01/40N	39:01	04:01	12:03:167
23	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
24	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
25	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
26	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01/02L	39:01/02L	04:01/82/226	12:03:143/167
28	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01:42	39:01	04:01	12:03:143/167
29	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
34	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
35	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01:01		35:01:01:02	39:01:01:03	04:01:01:01	12:03:01:01
38	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
39	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
41	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
42	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01/01L	04:01	12:03
45	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01:01		35:01	39:01	04:01/82	12:03:01
48	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01/42	39:01	04:01/226	12:03:143/167
51	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
62	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01:01		35:01:01:02	39:01:01:03	04:01:01:01	12:03:01:01
101	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
109	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
113	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01:01		35:01:01:02	39:01:01:03	04:01:01:01	12:03:01:01
115	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
119	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
123	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
126	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
128	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03		35	39	04	12
130	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01		35:01:01	39:01:01:02L/03	04:01:01	12:03:01
132	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01:01		35:01:01:01:01:02	39:01:01:03	04:01:01:01	12:03:01:01
133	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
141	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
142	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01/42	39:01	04:01/82	12:03
145	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
147	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01:03/01:01:03/03:01:01:07/03:01:58		35:01:01:01:35:01:01:02/35:01:01:03/35:42:01/35:01:23	39:01:01:01/39:01:01:03/39:01:01:04/39:01:03	04:01:01:01/04:01:01:03/04:01:01:04/04:01:01:06/04:01:01:07/04:226/04:30/04:82	12:03:01:01/12:03:01:04/12:143/12:167
149	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
159	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01:01		35:01:01:02	39:01:01:03	04:01:01:01	12:03:01:01
156	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01		35:01	39:01/86	04:01/79/226	12:03:143/167
157	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01:01		35:01:01:02	39:01:01:03	04:01:01:01	12:03:01:01
164	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
165	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01	03:01	35:01	39:01	04:01	12:03/23
178	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
185	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01/30/82	12:03:143
196	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01/30/82	12:03:143
223	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
225	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
232	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
242	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
245	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
246	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01	03:01	35:01	39:01	04:01	12:03
249	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
259	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01		35:01	39:01	04:01:01	12:03:01
260	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01		35:01	39:01	04:01:01	12:03:01
267	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01/42	39:01	04:01/30/82/226	12:03:143/167
268	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01:01		35:01:01:02	39:01:01:03	04:01:01:01	12:03:01:01
273	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01/30/82	12:03:143
304	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
312	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01/20/21N/26/37/45/78/121/181/29N/132/134/162N/182/220		35:01/40N/42/57N/134N/161/227/241/245/250	39:01/46/59/77/86	04:01/09N/28/30/41/79/82/84/106/144/146/161/162/165/196	12:03:23/109/110/111/125/143/160/167
328	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01:01:01/03:01:01:02N/03:01:01:03		35:01:01:01:05:01:01:02/35:01:23/35:42:01	39:01:01:01/39:01:01:02/39:01:01:03/39:01:03	04:01:01:01/04:01:01:02/04:01:01:03/04:01:01:04/04:01:01:05/04:09N/30/82	12:03:01:01/12:03:01:02/12:143
331	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03
332	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01/06/29	39:01/06/91	04:01/09N/82	12:03:143/167
351	2nd field	2nd field	2nd field	2nd field	2nd field		2nd field		2nd field	03:01		35:01	39:01	04:01	12:03

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

SAMPLE 4A2 09/2016

Lab No.	DRB1*	DRB1*	DRB5*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	Comment
9	01:01	16:01	02:02/06			05:01	06:03			03:01	13:01		
11										03:01	13:01		
12	01:01	16:01				05:01	06:03			03:01	13:01/107:01	B*35:259, 39:30 C*04:15, 12:156, C*04:94, 12:24 DQB1*05:01, 06:31 DPB1*29:01, 41:2:01, DPB1*295:01, 363:01	
15	01:01/50/67	16:01				05:01/103/104	06:03/110/185			03:01	13:01		
19	01:01/50/67	16:01	02:02/06			05:01	06:03/187			03:01	13:01/107:01/518:01		
20	01:01	16:01		01:01	01:02	05:01	06:03			03:01/104:01/124:01	13:01		
23	01:01	16:01		01:01	01:02	05:01	06:03	01:03	02:01	03:01	13:01		
24	01:01	16:01				05:01	06:03			03:01	13:01		
25	01:01/50/67	16:01				05:01	06:03			03:01	13:01		
28				01:01	01:02			01:03	02:01	03:01	13:01		
29	01:01	16:01				05:01	06:03			01:03	02:01	03:01	13:01
34	01:01	16:01	02:02	01:01	01:02	05:01	06:03	01:03	02:01	03:01	13:01		
35	01:01:01	16:01:01	02:02	01:01	01:02:01:01	05:01:01:03	06:03:01	01:03/13	02:01	03:01	13:01		
38	01:01	16:01		01:01/12	01:02	05:01	06:03			03:01	13:01		
39	01:01	16:01		01:01	01:02	05:01	06:03			03:01	13:01		
41	01:01	16:01				05:01	06:03			03:01	13:01		
42	01:01/50	16:01:01				05:01	06:03			03:01	13:01		
45	01:01/50	16:01:01				05:01:01	06:03:01			03:01/104:01	13:01/107:01/133:01		
48	01:01	16:01				05:01:01	06:03:01			03:01	13:01		
51										03:01	13:01		
62	01:01:01	16:01:01	02:02			05:01:01:03	06:03:01			03:01:01	13:01/107:01		
101	01:01	16:01				05:01	06:03			03:01	13:01		
109						05:01	06:03						
112	01:01	16:01				05:01:01	06:03:01						
113	01:01:01	16:01:01	02:02			05:01:01	06:03:01			03:01	13:01		
115	01:01	16:01	02:02	01:01	01:02	05:01	06:03			03:01	13:01		
119	01:01	16:01		01:01	01:02	05:01	06:03			03:01	13:01		
123	01:01	16:01	02:02			05:01	06:03						
126	01:01	16:01	02:02			05:01	06:03			01:03	02:01	03:01	13:01
128	01:01	16:01				05:01	06:03						
130	01:01:01	16:01:01	02:02	01:01:01	01:02:02	05:01:01	06:03:01	01:03:01	02:01:01	03:01:01	13:01:01		
132	01:01:01	16:01:01		01:01:01:01:01:01:03	01:02:02	05:01:01:03	06:03:01			03:01:01	13:01:01		
133	01:01	16:01				05:01	06:03						
141	01:01	16:01		01:01	01:02	05:01	06:03			03:01	13:01		
142	01:01/50/67	16:01				05:01	06:03						
145	01:01	16:01		01:01	01:02	05:01	06:03			03:01	13:01		
147	01:01:01:01:50/67	16:01:01	02:02			05:01	06:03			03:01	13:01		
149	01:01	16:01	02:02	01:01	01:02	05:01	06:03			03:01	13:01		
153	01:01:01	16:01:01				05:01:01:02:03	06:03:01						
156	01:01	16:01				05:01	06:03			03:01	13:01		
157	01:01:01	16:01:01				05:01:01:02:05:01:01:03	06:03:01						
164	01:01	16:01	02:02	01:01	01:02	05:01	06:03			03:01	13:01		
165	01:01	16:01	02:02/06	01:01	01:02	05:01	06:03	01:03	02:01	03:01	13:01		
178	01:01	16:01		01:01	01:02	05:01	06:03			03:01	13:01		
185	01:01/50/67	16:01	02:02/06			05:01	06:03			03:01/251:01	13:01/518:01/519:01		
196	01:01	16:01		01:01	01:02	05:01	06:03						
223	01:01	16:01								03:01	13:01		
225	01:01	16:01				05:01	06:03			03:01	13:01		
232	01:01	16:01				05:01	06:03						
242	01:01	16:01				05:01	06:03						
245	01:01	16:01	02:02			05:01	06:03			03:01	13:01		
246	01:01	16:01				05:01	06:03						
259	01:01	16:01				05:01	06:03						
260	01:01	16:01				05:01	06:03						
267	01:01/50/67	16:01				05:01	06:03						
268	01:01:01	16:01:01	02:02			05:01:01	06:03:01			03:01:01	13:01:01		
273	01:01/50/67	16:01	02:02	01:01	01:02	05:01	06:03			03:01	13:01		
304	01:01	16:01				05:01	06:03						
312	01:01/50/67	16:01				05:01	06:03						
328	01:01:01	16:01:01				05:01:01:01:05:01:01:02:05:01:01:03:05:18:05:27:05:31:05:32:05:45:05:84	06:03:01:06:41:06:44:06:110						
331						05:01	06:03						
332	01:01/07/22/40N/49	16:01				05:01:11/51/73	06:03:28/31/199						
351	01:01	16:01	02:02	01:01	01:02	05:01	06:03	01:03	02:01	03:01	13:01		

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

SAMPLE 4A2 10/2016 DISPATCHED ON 05TH JULY 2016										RESULTS				
Lab No	A*	B*	C*	DRB1*	DRB3/4/5*	DQA1*	DQB1*	DPA1*	DPB1*	A*	B*	C*	C*	
	res	res	res	res	res	res	res	res	res	res	res	res	res	
9	2nd field	2nd field	2nd field	2nd field	2nd field					03:01		44:02/19N	07:02/0349	
11	2nd field	2nd field	2nd field	2nd field						03:01	07:02/61	44:02/2S	07:02/0349	
12	2nd field	2nd field	2nd field	2nd field						03:01/20/26	68:01	07:02/27/66	07:02/50/66	
15	2nd field	2nd field	2nd field	2nd field						03:01	68:01	44:02	07:02	
19	2nd field	2nd field	2nd field	2nd field						03:01	68:01/11N	07:02/02/11/61N	07:02	
20	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01/11N	07:02/02/11/61N	07:02	
23	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
24	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
26	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02/2S	07:02	
27	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02/2S	07:02	
28	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
29	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
34	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
35	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01/01	68:01/02/02	07:02/01	07:02/01	
38	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
39	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
41	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
42	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
45	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01/01	68:01/02	07:02/01	07:02/01	
48	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/24	68:01/66	44:02	07:02/46/03/349	
51	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01/01	68:01/02/02	07:02/01	07:02/01/03	
62	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
101	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
109	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02/27		
112	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01/01	68:01/02/02	07:02/01	44:02/01/03	
113	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01/01	68:01/02/02	07:02/01	44:02/01/03	
115	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
119	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
123	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
126	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
128	2nd field	2nd field	2nd field	2nd field	2nd field					03	68	67	67	
130	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01	68:01/02	07:02/01	44:02/01	
132	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01/01	68:01/02/02	07:02/01	44:02/01/03	
133	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
141	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
142	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
145	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
147	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01/01	68:01/02/02	07:02/01	44:02/01/03	
149	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
150	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01/01	68:01/02/02	07:02/01	44:02/01/03	
156	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01	68:01/02	07:02	44:02/01/03	
157	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01/01	68:01/02/02	07:02/01	44:02/01/03	
164	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
165	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
178	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
185	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02/03/349	
196	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02/03/349	
223	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
225	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
242	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
245	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
248	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
259	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
260	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01	68:01/02	07:02/01	44:02/01	
267	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02/03/349	
268	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01/01	68:01/02/02	07:02/01	44:02/01/03	
273	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02/03/349	
304	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
312	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/20/21N/26/37/45/79/112/119/129N/132/134/162N/182/220	68:01/11N/33/36	07:02/44/49N/58/59/61/120/128/129/130/156/161N/169	44:02/19N/27/66/118/167	07:02/20/60/74/119/160/167/245/308/348/349/350N/359/446
328	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/01/01/03/01/01/03/01/01/03	68:01/02/01/68/01/02/02/68/11N	07:02/01/01/02/02/45/07/61/61N	44:02/01/01/44/02/01/02/04/02/01/03/44/02/27/44/19N	07:02/01/01/01/02/01/02/01/02/01/03/07/02/01/04/07/02/01/05/07/50/349
331	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	
332	2nd field	2nd field	2nd field	2nd field	2nd field					03:01/05/17	68:01/11N/19/91	07:02/04/07/18	44:02/19N/28/106/211	
351	2nd field	2nd field	2nd field	2nd field	2nd field					03:01	68:01	44:02	07:02	

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

SAMPLE 4A2 06/2016

DISPATCHED ON 05TH JULY 2016

ASSESSMENT

A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB5*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	Acceptable
01:04N/06/17/23N/32/37/45/56N/81/87N/103/107/109/132/141/142	03:08/153/202/21N/26/37/45/78/112/118/129N/132/134/162N/182	08:01/19N/109	44:02/66/118/187	05:01/3/93	07:01/06/18/52/153/343	03:01/3/15	15:01/37	01:01	01:01	01:02/11	05:01	02:01/02/04/05	06:109/11/124	01:03	01:03/blank	03:01/104:01/124:01	04:01	A*01:98+A*03:150 B*08:71+B*44:53 C*05:25+C*07:16 C*05:76+C*07:165 C*07:09, 08:02 DOB*06:124+DOB*02:05	Acceptable

Result Summary
Number Acceptable
Number Unacceptable
Number NT

blank blank

Unacceptable

Lab	A* 52	B* 52	C* 50	DRB1* 58	DRB3/4/5* 17	DQA1* 20	DQB1* 56	DPA1* 6	DPB1* 41	A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB5*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	
9	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field			01:01	03:01	08:01	44:02/19N	05:01	07:01/06/18	03:01	15:01	01:01	01:01			02:01	06:02			03:01	04:01		
11																													
12	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02	05:01	07:01/06/18/343	03:01	15:01					02:01	06:02			03:01	04:01	A*01:98, 03:150	
15	2nd field	2nd field	2nd field	2nd field			2nd field			01:01/32/37	03:01/20/26	08:01/109	44:02/27/66	05:01/03/37	07:01/06/18	03:01	15:01					02:01/02/04	06:02/109/111			03:01	04:01	C*05:25, 07:16; C*05:76, 07:165	
20	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01			01:02/11	05:01	02:01	06:02			03:01/104:01/1	04:01		
23	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			24:01	04:01		
24	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
26	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
28						2nd field		2nd field													01:02	05:01			01:03	03:01	04:01		
29	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
34	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02	01:03		03:01	04:01		
35	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
38	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
39	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01	A*01:98, 03:150	
41							2nd field									03:01	15:01					02:01	06:02			03:01	04:01		
42	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02	05:01	07:01/06/18/343	03:01	15:01					02:01	06:02			03:01	04:01	A*01:98, 03:150	
45	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02	05:01	07:01/343	03:01	15:01					02:01	06:02			03:01/104:01/1	04:01		
48	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02	05:01	07:01/06/18/343	03:01	15:01					02:01	06:02			03:01	04:01		
51							2nd field																			03:01	04:01		
62	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01			02:01	06:02			03:01	04:01		
101	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02/19N	05:01	07:01/06/18/343	03:01	15:01					02:01	06:02			03:01/104:01/1	04:01		
109							2nd field																02:01	06:02			24:01	04:01	
112	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02/27	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
113	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01			02:01	06:02			03:01	04:01		
115	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
119	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
123	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01			02:01	06:02			03:01	04:01		
126	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02	01:03		03:01	04:01		
128							2nd field									03:01	15:01					02:01	06:02			03:01	04:01		
130	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02	01:03		03:01/124:01	04:01		
132	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
133	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
141	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
142	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
145	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
147	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01			02:01	06:02			03:01	04:01		
149	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02			03:01	04:01		
150	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
156	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01/124:01	04:01		
157	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
164	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01			02:01	06:02			03:01	04:01		
165	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01/06/18	03:01	15:01	01:01	01:01	01:02	05:01	02:01	06:02	01:03	01:03	03:01	04:01		
178	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
185	2nd field	2nd field	2nd field	2nd field		2nd field	2nd field			01:01	03:01	08:01	44:02	05:01	07:01/06/18/343	03:01	15:01	01:01	01:01			02:01	06:02			03:01	04:01		
196							2nd field									03:01	15:01					02:01	06:02			03:01	04:01		
223							2nd field									03:01	15:01					02:01	06:02			03:01	04:01		
225							2nd field									03:01	15:01					02:01	06:02			03:01	04:01		
232							2nd field									03:01	15:01					02:01	06:02			03:01	04:01		
242	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01					02:01	06:02			03:01	04:01		
245	2nd field	2nd field	2nd field	2nd field			2nd field			01:01	03:01	08:01	44:02	05:01	07:01	03:01	15:01	01:01	01:01			02:01	06:02			03:01	04:01		

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

SAMPLE 4A2 08/2016

DISPATCHED ON 05TH JULY 2016

ASSESSMENT

A*	B*	C*	DRB1*	DRB3/4/5*	DQA1*	DQB1*	DPA1*	DPB1*	A*	B*	C*	DRB1*	DRB3/4/5*	DQA1*	DQB1*	DPA1*	DPB1*	Cis/trans allele combination	Acceptable
A*02:09/43N/66/75/83N/89/97/132/134/1	31:01	40:01	49:01						A*02:20/A*31:02	B*40:55/63/141/150/1	03:04	07:01	01:01	01:02	02:01	02:02	03:01	A*02:20+A*31:02	Acceptable
40/241/252/256/266/291/294/309N/327/3	59/71/72/81	40:01	49:01						B*40:117, 50:01	40/241/252/256/266/291/294/309N/327/3	03:04	07:01	01:01	01:02	02:01	02:02	03:01	B*40:117, 50:01	Acceptable
23/356N/357/397/411/446/455/469	51/179/221/247/264	40:01	49:01							23/356N/357/397/411/446/455/469	03:04	07:01	01:01	01:02	02:01	02:02	03:01		Unacceptable

Result Summary
Number Acceptable
Number Unacceptable
Number NT

Lab	A*	B*	C*	DRB1*	DRB3/4/5*	DQA1*	DQB1*	DPA1*	DPB1*	A*	B*	C*	DRB1*	DRB3/4/5*	DQA1*	DQB1*	DPA1*	DPB1*	Cis/trans allele combination	
9	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
11	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
12	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
15	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01/09/66	31:01/23/46	40:01/55/141	49:01							
19	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01/55/141/150	49:01							
20	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
23	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
24	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
26	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
28	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
29	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
34	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
35	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
38	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
39	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
41	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
42	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
45	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
48	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
49	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
51	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
62	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
101	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
109	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
112	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01/09	31:01	40:01	49:01							
113	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
115	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
119	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
123	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
126	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
129	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
130	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
132	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
133	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
141	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
142	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
145	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
147	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
148	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
156	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
156	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
157	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
164	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
165	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
178	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
185	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
196	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
223	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
225	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
242	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
245	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
248	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
259	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
260	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
267	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
268	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
273	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
304	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
312	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01/09/43N/66/75/83N/89/97/132/134/1	31:01/14N/23/46/48/55/	40:01/55/141/150/1	49:01							
40/241/252/256/266/291/294/309N/327/3	58/59/71/72/81	40:01	49:01							40/241/252/256/266/291/294/309N/327/3	58/59/71/72/81	40:01/55/141/150/1	49:01							
23/356N/357/397/411/446/455/469	51/179/221/247/264	40:01	49:01							23/356N/357/397/411/446/455/469	51/179/221/247/264	40:01/55/141/150/1	49:01							
328	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
331	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							
332	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01/63	49:01/07							
351	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	02:01	31:01	40:01	49:01							

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

SAMPLE 4A2 10/2016 DISPATCHED ON 05TH JULY 2016

ASSESSMENT

A*	A*	B*	B*	C*	C*	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DOB1*	DOB1*	DPA1*	DPA1*	DPB1*	DPB1*	Cis/trans allele combination	Acceptable
03:01	68:01	07:02	44:02	07:04	07:04	07:01	14:54	02:02	01:03	01:04	02:01	02:02	05:03	01:03	01:03/blank	02:01	03:01	A*03:24, B*66, A*03:50, B*07:153, B*07:153+B*44:91	Acceptable
03:05/17/20/21/24/26/37/45/78/ 112/118/129/132/134/162/162/ 68:11/19/33/66/91/96 07:04/0718/44/49/59/59/61/ 120/129/129/130/156/161/16 9 44:19/27/28/66/106/118/187 C*07:45/50/66/74/159/160/167/ 245/308/348 07:11/260/324 07:34 14:01 01:01/06/09 01:05 02:01/04 05:09/10 14:10/1 104:01/124:01																			
07:0411 07:50 07:23 14:01 (without 14:54/39) 01:01 (without 01:03) 01:01 (without 01:04) blank blank																			

Result Summary
Number Acceptable
Number Unacceptable
Number NT

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
9	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02/61/161N	44:02/19N	07:02/50	07:04/11	07:01	14:54	02:02	01:03			02:02	05:03			02:01	03:01	
11	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02/61	44:02	07:02/50	07:04/11	07:01	14:54					02:02	05:03			02:01	03:01	A*03:24, B*66, A*03:50, B*07:153, B*07:153+B*44:91
15	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01/20/26	68:01	07:02/58/59	44:02/27/66	07:02/50/66	07:04/11/324	07:01/04	14:01/54					02:01/02/04	05:03/06/10			02:01	03:01	
19	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01/04	14:54					02:02	05:03			02:01	03:01	
20	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01/11N	07:02/61/161N	44:02	07:02	07:04	07:01	14:54			01:04/05	02:01	02:02	05:03		02:01/141:01	03:01/104:01/1	24:01	
23	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54					02:02	05:03			02:01	03:01	
24	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54					02:02	05:03			02:01	03:01	
26	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01/04	14:54					02:02	05:03			02:01	03:01	C*07:45, 07:260
28	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01/04	14:54			01:04	02:01	02:02	05:03	01:03		02:01	03:01	
29	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03	01:04	02:01	02:02	05:03			02:01	03:01	
34	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03	01:04	02:01	02:02	05:03	01:03		02:01	03:01	
35	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03	01:04	02:01	02:02	05:03			02:01	03:01	
38	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54			01:04/05	02:01	02:02	05:03			02:01	03:01	
39	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54			01:04	02:01	02:02	05:03			02:01	03:01	
41	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54					02:02	05:03			02:01	03:01	
42	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54					02:02	05:03			02:01	03:01	
45	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54					02:02	05:03			02:01	03:01	
48	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01/24	68:01/66	07:02	44:02	07:02/45/50	07:04/11/260	07:01	14:54					02:02	05:03			02:01	03:01	
51	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03			02:02	05:03			02:01	03:01	
62	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03			02:02	05:03			02:01	03:01	
101	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01/11N	07:02/61/161N	44:02/19N	07:02/45/50	07:04/11/260	07:01/04	14:54					02:02	05:03			02:01	03:01	104:01/124:01
109	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02/27	07:02	07:04	07:01	14:01					02:02	05:03			02:01	03:01	
112	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03			02:02	05:03			02:01	03:01	
113	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03	01:04	02:01	02:02	05:03			02:01	03:01	
115	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03	01:04	02:01	02:02	05:03			02:01	03:01	
119	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03	01:04	02:01	02:02	05:03			02:01	03:01	
123	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03	01:04	02:01	02:02	05:03			02:01	03:01	
126	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03	01:04	02:01	02:02	05:03	01:03		02:01	03:01	
128	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54					02:02	05:03			02:01	03:01	
130	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03	01:04	02:01	02:02	05:03	01:03		02:01	03:01	
132	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54					02:02	05:03			02:01	03:01	
133	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54					02:02	05:03			02:01	03:01	
141	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54			01:04	02:01	02:02	05:03			02:01	03:01	
142	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02/61	44:02	07:02	07:04	07:01/04	14:01/54					02:02	05:03			02:01	03:01	
145	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54			01:04	02:01	02:02	05:03			02:01	03:01	
147	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02/61	44:02	07:02	07:04	07:01/04	14:54	02:02	01:03	01:04	02:01	02:02	05:03			02:01	03:01	C*07:45, 07:260
148	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54	02:02	01:03	01:04	02:01	02:02	05:03			02:01	03:01	
150	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54					02:02	05:03			02:01	03:01	
156	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54					02:02	05:03			02:01	03:01	
157	2nd field	2nd field	2nd	2nd	2nd	2nd	2nd	2nd	2nd	03:01	68:01	07:02	44:02	07:02	07:04	07:01	14:54					02:02	05:03					