

**UK NEQAS for H&I Scheme 6 - HLA Antibody Detection**

SAMPLES 6 01-06/2017

DESPATCHED ON 07TH MARCH 2017

**COMPLEMENT DEPENDENT CYTOTOXICITY (CDC) TECHNIQUE INFORMATION**

Lab No	Technique	Cell source	Frozen trays	In-house Commercial	Panel		Complement source	Volume added per well (µl)				Incubation (mins)		Dead cell visualisation	Analysis Procedures	Software Manufacturer	%PRA considered pos	Comments	
					Composition	Size		Cells	Sera	Comp	DTT	Pre-C	Post-C						
20	NIH	B-cells	No		Random	40	Cedarlane	1	1	5	1	60	45	EB+AO	Manual/Computerised	In-House	>6%		
28	CDC		Yes	One Lambda	Selected	30	Cedarlane	1	1	5		30	60	Fluoroquen	Manual				
29	NIH	PBL, T-cells	Yes	One Lambda	Selected	58 (+2)	Cedarlane	1	1	5		30	60	Fluoroquen	Manual				
42	NIH	PBL	Yes	In-house	Mixture	40	TCS Biosciences	1	1	5	1	60	120	Fluoroquen	Manual				
101		T-cells	Yes	GenTrak	Selected	30	Commercial		2	6	2	30	60	Fluoroquen	Manual				
114	NIH	T and B-cells	No		Random	50	Commercial	1	1	5	0.1	30	60	Fluoroquen	Computerised	One Lambda	>10%	T-cell panel dependant	
120	Standard CDC	T and B-cells	Yes	In-house	Selected	36	Cedarlane	1	1	6	2	25	50	Fluoroquen	Computerised	One Lambda	20%		
136	NIH	PBL	No		Mixture	49	In-house	1	1	5		30	60	EB+AO	Computerised	One Lambda	>4%		
139	NIH	PBL	Yes	GenTrak	Selected	30	Cedarlane	1	2	5		30	60	Fluoroquen	Manual				
154	NIH	T-cells	Yes	Servbio	Mixture	30	In-house	2	2	5	8	30	60	Eosin	Manual			Any positive results	
159	Classical CDC	PBL	Yes	In-house	Selected	30	In-house	2	1	5	10	30	60	EB+AO	Computerised	One Lambda	>5%		
186	NIH	PBL	No	In-house	Selected	34	Invitrogen	1	1	6	1	30	60	EB	Manual			N/A	
194	CDC	PBL	No	In-house	Selected	42	In-house	1	1	5	1	30	60	Fluoroquen	Computerised	One Lambda	>5%		
206	NIH	PBL	Yes	In-house	Selected		Cedarlane	1	1	6.6	1	30	90	Fluoroquen	Manual			10%	
223		T-cells	No		Random		Innotrain	0.5	0.5	2		45	60	EB+AO	Manual				
227	NIH	PBL	No		Random	30	Immucor	1	1	6	5	30	60	Fluoroquen	Manual			3%	
238	NIH	PBL	No		Selected	40	Invitrogen	1	1	5		30	60	Fluoroquen	Computerised	Ingen		Any % PRA >0	
245	NIH	T-cells	Yes	GenTrak	Selected	30	BAG		2	5	0.1	30	60	EB	Manual			3 (1/30)	
268	CDC AgH	T-cells	Yes		Random	60	GenTrak		2	5	1/10	30	60	Fluoroquen	Manual			5%	
284	With and without DTT	PBL	No		Selected	30	Cedarlane	1	1	5	1	45	75	EB+AO	Manual/Computerised	Lymhoe		1	
294	AHG	T-cells	Yes	GenTrak	Selected	60	GenTrak		2	5		30	60	Fluoroquen	Manual				
311	NIH	PBL	Yes	GenTrak	Selected		Servbio		2	5		45	90	Fluoroquen	Manual				
315		T-cells	Yes	Servbio	Random	30	Servbio	1	2	5	1/20	30	60	Fluoroquen	Manual/Computerised				3%

**FLOW CYTOMETRY TECHNIQUE INFORMATION**

Lab No	Flow Cytometer Model	Cell		Conjugate	Manufacturer	Conjugate	Manufacturer	Software	Manufacturer	Comments
		preparations	source							
153	BD FACS Canto II			FITC anti-human IgG FAB2	One Lambda			DIVA	BD	
222	BD FACS Canto II				One Lambda	Anti human IgG FITC	One Lambda	DIVA	BD	
264	BD	T and B-cells	One Lambda							
335	FACSCanto II		One Lambda	Anti-Human IgG-FITC	One Lambda			DIVA	BD	
345	Canto II		One Lambda FlowPRA™	FITC	Thermo Fisher FlowPRA				BD	

**ELISA TECHNIQUE INFORMATION**

Lab No	ELISA kit(s) used	Batch No.	Manufacturer	ELISA kit(s) used	Batch No.	Manufacturer	Comments
117	LATM10	011	One Lambda				

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LUMINEX TECHNIQUE INFORMATION													LUMINEX TECHNIQUE INFORMATION													
Lab No	LUMINEX kit used	Used for Selection Criteria	Batch No	Bead Volume (µl)	Serum Volume (µl)	Source	Negative Control Details	Details of +/- cut off (1000MFI)	LUMINEX kit used	Used for Selection Criteria	Batch No	Bead Volume (µl)	Serum Volume (µl)	Source	Negative Control Details	Details of +/- cut off	LUMINEX kit used	Used for Selection Criteria	Batch No	Bead Volume (µl)	Serum Volume (µl)	Source	Negative Control Details	Details of +/- cut off		
11	LSM12	AI	20	2	8	Manufacturer	LOT 16	Ratio >2.5 Ratio <5 = pos	LSM12	AI	011	2	10	Manufacturer		300MFI	LSM12	AI	11	12	14	10	Manufacturer	Pos = 1.5, <4.2		
12	LSM12	AI	21	2	8	Manufacturer			LS2A01	Selected	011	2	10	Manufacturer			LSM12	AI	11	12	14	10	Manufacturer			
14	LS1A04	Selected	10	2	10	Manufacturer			LS2PRA	Selected	16	2	8	IH		>500MFI = pos	LS2PRA	AI	15	19	19	8	Manufacturer			
15	LS1PRA	AI	016	2	8	IH			LS1PRA	AI	16	2	8	IH		>500MFI = pos	LS1PRA	AI	15	19	19	8	Manufacturer			
19	LSM12	AI	21	2	8	Manufacturer			LS1PRA	Selected	016	3.5					LSM12	AI	20	20	23	20	Manufacturer			
20	LSM12	AI	020	2	8	Manufacturer	LOT 16	CI 4.1 CI 3.1 500	LS1PRA	Selected	016	3.5					LSM12	AI	20	20	23	20	Manufacturer			
23	LS1A04	AI	020	2	8	Manufacturer		CI 6.2 CI 3.6	LS1PRA	Selected	016	3.5					LSM12	AI	20	20	23	20	Manufacturer			
24	LSM12	AI	21	2	8	Manufacturer		CI 7.0 CI 6.0	LS1PRA	Selected	016	3.5					LSM12	AI	20	20	23	20	Manufacturer			
26	LSM12	AI	020	2	8	Manufacturer	NC 16	Ratio 4.1 ratio <1.5 Neg	LS1PRA	Selected	016	3.5					LSM12	AI	20	20	23	20	Manufacturer			
28	LSM12	AI	020	2	8	Manufacturer			LS1PRA	Selected	016	3.5					LSM12	AI	20	20	23	20	Manufacturer			
29	LM1	AI	304259	5	12.5	Manufacturer		1000	LM2	AI	3004223	5	12.5	Manufacturer		1000	LMX	AI	29	3004480	5	12.5	Manufacturer	Neg 1.2, Pos 1.5		
34	LS1A04	Selected	10	2.5	20	Manufacturer		Relative fluorescence >2000	LS2A01	Selected	11	2	8	Manufacturer		1000	LSM12	AI	34	21	5	20	Manufacturer			
38	LS2PRA	Selected	16	2.5	20	Manufacturer		MFI >1500	LSM12	AI	20	2.5	20	Manufacturer	NBSC	Ratio >2		LSM12	AI	38				Manufacturer		
41	LSM12	AI	20	2.5	20	Manufacturer			LS2A01	Selected	15	2.5	10	IH and MAN			LSM12	AI	41				Manufacturer			
42	LS1A04	AI	16	2.5	10	IH and MAN			LS2PRA	Selected	15	2.5	10	IH and MAN			LSM12	AI	42	20	2.5	10	IH and MAN	Various Ratio		
46	LS1PRA	Selected	3003924	2	8	Manufacturer			LSM12	AI	3004223	2	8	Manufacturer			LS1A04	Selected	46	10	3	12	Manufacturer	Adjustments to manufacturers instructions for use	Generally over 1500 but taken with clinical history	
48	LM1	AI	3003924	2	8	Manufacturer			LSM12	AI	3004223	2	8	Manufacturer			LS1A04	Selected	48	10	3	12	Manufacturer	Adjustments to manufacturers instructions for use	Generally over 1500 but taken with clinical history	
51	LSA1	AI	20	2	8	Manufacturer			LSA1	AI							LSA1	AI	51				Manufacturer			
54	LSM12	AI	20	2	8	Manufacturer		pos >350	LSA1	AI							LSA1	AI	54				Manufacturer			
58	LSM12	AI	20	2.5	10	Manufacturer		NSB ratio >1.5	LS1A04	Selected	009	2.5	10	Manufacturer		Pos =>1000	LSA01	Selected	58	11	2.5	10	Manufacturer			
62	LSM12	AI	3003924	5	12.5	Manufacturer			LMX	AI	3004223	5	12.5	Manufacturer			LMX	AI	62	3004821	5	12.5	Manufacturer			
100	LM1	AI	3003924	5	12.5	Manufacturer			LMX	AI	3004223	5	12.5	Manufacturer			LMX	AI	100				Manufacturer	Pos = ratio >3		
101	LSM12	AI	3004883004566	5	20	Manufacturer		2.5	LSA1	Selected	11116A11026E-SA1	40	10	Manufacturer			LSA1	Selected	101				Manufacturer			
112	LSM12	AI	LMX	20	2.5	10	In house	Ratio <5	LMX	AI							LMX	AI	112	11236A1016A-SA2	40	10	Manufacturer			
114	LSM12	AI	20	2.5	10	In house		Ratio <5	LMX	AI							LMX	AI	114				Manufacturer			
115	LSM12	AI	20	2.5	10	Manufacturer		Ratio 1.5-2.0	LMX	AI							LMX	AI	115				Manufacturer			
117	LSM12	AI	161885 L0021	5	18	In house	Non immunised human serum AB male	Ratio >3	LMX	AI							LMX	AI	117				Manufacturer			
120	LSM12	AI	161885 L0021	5	18	In house			LMX	AI							LMX	AI	120				Manufacturer			
127	LMX	AI	020	5	12.5	Manufacturer		1000	LMX	AI							LMX	AI	127				Manufacturer			
128	LSM12	AI	020	5	20	Manufacturer		NB ratio <5	LMX	AI							LMX	AI	128				Manufacturer			
133	LMX	AI	020	5	12.5	Manufacturer		1000	LMX	AI							LMX	AI	133				Manufacturer			
138	LSM12	AI	020	2.5	10	In house	AB male	1000MFI	LMX	AI							LMX	AI	138				Manufacturer			
139	LSM12	AI	020	5	20	Manufacturer		neg <6, pos <6	LMX	AI							LMX	AI	139				Manufacturer			
143	LS2PRA	Selected	15	5	20	Manufacturer		1000MFI and reaction pattern	LSM12	AI	020	5	20	Manufacturer			LSM12	AI	143				Manufacturer			
147	LSM12	AI	020	5	20	Manufacturer		Ratio <5	LSM12	AI							LSM12	AI	147				Manufacturer			
154	LSM12	AI	020	5	20	Manufacturer		Ratio >3.5	LSM12	AI							LSM12	AI	154				Manufacturer			
159	LSM12	AI	20	5	20	Manufacturer		Ratio >3	LSM12	AI							LSM12	AI	159				Manufacturer			
160	LSM12	AI	0000132972	5	20	Manufacturer		Ratio <5 = pos, Ratio <3 = neg	LSM12	AI							LSM12	AI	160				Manufacturer			
162	LSM12	AI	21	2.2	10	Manufacturer		3	LSM12	AI							LSM12	AI	162				Manufacturer			
163	LSM12	AI	020	5	18	In house		pos <4, neg <2.5	LSM12	AI							LSM12	AI	163				Manufacturer			
164	LSM12	AI	152273	5	20	Manufacturer		+ internal negative control	LSA01	Selected	011	3					LSA01	Selected	164				Manufacturer			
169	LS1A04	AI	009	3	10	Manufacturer		1000MFI	LSA01	Selected	011	3					LSA01	Selected	169				Manufacturer			
181	LS1A04	AI	009	3	10	Manufacturer		300MFI	LSA01	Selected	011	3					LSA01	Selected	181				Manufacturer			
186	LMX	AI	3003808 3003283	5	12.5	Manufacturer		Manufacturer criteria	LSA01	Selected	011	3					LSA01	Selected	186				Manufacturer			
188	LMX	AI	009	5	12.5	Manufacturer		>1000MFI pos	LSA01	Selected	62	5					LSA01	Selected	188				Manufacturer			
190	LS1A04	AI	021	5	20	Manufacturer		1000MFI	LSA01	Selected	62	5					LSA01	Selected	190				Manufacturer			
191	LSM12	AI	001	5	20	Manufacturer		Ratio <2.5	LSA01	Selected	62	5					LSA01	Selected	191				Manufacturer			
193	LSM12	AI	020	5	20	Manufacturer			LSA01	Selected	62	5					LSA01	Selected	193				Manufacturer			
194	LSM12	AI	021	5	20	Manufacturer			LSA01	Selected	62	5					LSA01	Selected	194				Manufacturer			
195	LSM12	AI	020	5	20	Manufacturer			LSA01	Selected	62	5					LSA01	Selected	195				Manufacturer			
204	LSM12	AI	21	4	20	Manufacturer	LSNC	CI >3, CI1 >2.5	LSA01	Selected	62	5					LSA01	Selected	204				Manufacturer			
205	LMX	AI	3004480	5	12.5	Manufacturer			LSA01	Selected	62	5					LSA01	Selected	205				Manufacturer			
206	LMX	AI	3004688	5	12.5	Manufacturer		Manufacturer	LSA01	Selected	09156A	40	10	Manufacturer		500	LSA01	Selected	206				Manufacturer			
209	LSM12	AI	20	5	20	Manufacturer		NB ratio <2	LSA01	Selected	09156A	40	10	Manufacturer		500	LSA01	Selected	209				Manufacturer			
212	LMX	AI	3003153	5	12.5	Manufacturer		1000MFI	LSA01	Selected	09156A	40	10	Manufacturer		500	LSA01	Selected	212				Manufacturer			
214	LSA1	AI	02288A	40	10	Manufacturer			LSA01	Selected	09156A	40	10	Manufacturer		500	LSA01	Selected	214				Manufacturer			
215	LMX	AI	020	5	12.5	Manufacturer			LSA01	Selected	09156A	40	10	Manufacturer		500	LSA01	Selected	215				Manufacturer			
216	LMX	AI	020	5	12.5	Manufacturer			LSA01	Selected	09156A	40	10	Manufacturer		500	LSA01	Selected	216				Manufacturer			
217	LMX	AI	020	5	12.5	Manufacturer			LSA01	Selected	09156A	40	10	Manufacturer		500	LSA01	Selected	217				Manufacturer			
222	LM1	AI	1	5	12.5	Manufacturer		1000 raw	LM2																	

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SAMPLES 6 01-062017

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**LUMINEX TECHNIQUE INFORMATION**

Lab No	Positive control serum for Luminex testing?	Source	Every run?	Positive control serum		Samples stored prior to testing?	Conditions?	Storage time? (hours)	Methods used?	Dilution/ Other
				If no: Same serum?	If no: Same serum?					
9	Yes	Sensitised patient sera	No	Positive control sera tested once a week	Yes	Sometimes	-20	>-48		
11	Yes	Pooled sensitised patient sera	Yes		No	Yes	-40	>-48	Adsorption beads	Dilution
12	Yes	Sensitised patient sera	Yes		No	Yes	-20	24-48	Adsorption beads	Dilution
14	Yes	Sensitised patient sera	Yes		No	Always	-20	>-48	Heat inactivation, EDTA	
15	Yes	Pooled HSP sera	Yes		Yes	Yes	2-8	<24	EDTA	
19	Yes	Sensitised patient sera	Yes		Yes	Yes	2-8	24-48	EDTA	
20	Yes	Sensitised patient sera	Yes		Yes	Always	-80	>-48	EDTA, Adsorption beads	
23	Yes	Positive patient sera diluted 1:2	Yes		Yes	Always	-60	>-48	EDTA, Adsorption beads	
24	Yes	Sensitised patient sera	Yes		No	Always	-20	>-48	N/A	
25	No		Yes		Yes	Yes	-30	24-48	EDTA, Adsorption beads	
26	Yes	Sensitised patient sera	Yes		Yes	Yes	2-8	<24	EDTA, Adsorption beads	
28	Yes	Sensitised patient sera	Yes		Yes	Yes	-20	>-48		
29	Yes	Manufacturer	Yes		No	Sometimes	3-5	24-48	Adsorption beads	
34	Yes	Sensitised patient sera	Yes		No	Sometimes	-40		EDTA	
38	Yes	Sensitised patient sera	Yes		No	Always	-30	24-48	EDTA	
39	Yes	Sensitised patient sera	Yes		Yes	Always	-40	>-48	EDTA, Adsorption beads	
41	Yes	Sensitised patient sera	Yes		No	Yes	-80	>-48	Adsorption beads	
42	Yes	Sensitised patient sera	Yes		Yes	Always	-40	24-48	EDTA, Adsorption beads	
45	Yes	Pooled sensitised patient sera	Yes		Yes	Always	Frozen	>-48	EDTA, Adsorption beads	
48	Yes	Pooled sensitised patient sera	Yes		No	Sometimes	-20	>-48	Heat inactivation, Adsorption beads	
51	Yes	Pooled sensitised patient sera	Yes		Yes	Always	-40	>-48	EDTA, Adsorption beads	
54	Yes	Pooled sensitised patient sera	Yes		Yes	Always	-20	>-48	EDTA, Adsorption beads	
58	Yes	Sensitised patient sera, Manufacturer	Yes		No	Kit Dependent	Always	-15 to -20		Fetal calf serum added to 5% of total
62	Yes	Tunnel LifeCodes	Yes		Yes	Yes	-70	>-48		
100	Yes	Manufacturer	Yes		No	Always	-20	>-48	Adsorption beads	DTT
101	Yes	Sensitised patient sera	Yes		Yes	Always	-20	>-48		
112	Yes	Sensitised patient sera, Manufacturer	Yes		No	Always	-20	>-48	N/A	
114	Yes	Sensitised patient sera	Yes		Yes	Sometimes	Frozen	24-48	Adsorption beads	
115										
117	No		Yes		No	Always	-65	>-48	Adsorption beads	
120	Yes	Pooled positive sera from plasma donors	Yes		No	Always	-20	24-48	EDTA, Adsorption beads	
127	Yes	Provided by kit manufacturer	Yes		No	Always	-20	>-48	Adsorption beads	
128	Yes	Sensitised patient sera	Yes		Yes	Yes	-22	>-48		
133	Yes	Manufacturer	Yes		Yes	Always	-20	>-48	Adsorption beads	
138	Yes	Sensitised patient sera	Yes		No	Always	Frozen	>-48	Adsorption beads	
139	Yes	Sensitised patient sera	Yes		No	Different PC for detection and identification Class I and II	Always	-30	>-48	Adsorption beads
143	No		Yes		Yes	Always	-20	>-48		
147	Yes	Sensitised patient sera	Yes		Yes	For each series HLA Antibody detection	4	>-48	Adsorption beads	
154	Yes	Sensitised patient sera	Yes		No	Screening = Pos Class I and II serum	Yes	4	>-48	
159	Yes	Sensitised female donors	Yes		Yes	Always	-25	>-48		
160	No		Yes		No	Always	4-8	>-48	Adsorption beads	
162	No		No	Not requested	No	Not requested	-20	24-48	EDTA	
163	Yes	Sensitised patient sera	Yes		No	Sensitised patient sera for the labscreen mixed, another sensitised patient sera different for labscreen SA	Always	-30	>-48	EDTA, Adsorption beads
164	Yes	Sensitised patient sera	Yes		Yes	Sometimes	5	>-48		
169	No		Yes		No	Always	-20	>-48		Dilution
181	Yes	Sensitised patients pool	Yes		No	One for Class I and one for Class II	Always	Frozen	Adsorption beads	Dilution
186	Yes	Manufacturer	Yes		No	Always	Frozen	24-48	Adsorption beads	
189	Yes	Manufacturer	Yes		No	Kit Dependent	Sometimes	2-8	24-48	
190	Yes	Sensitised patient sera	Yes		No	Kit Dependent	Yes	-40	>-48	
191	Yes	Pooled sensitised patient sera	Yes		Yes	Always	-20	<24	Adsorption beads	Dilution
193	Yes	Sensitised patient sera	Yes		Yes	Always	-35	24-48	EDTA	DTT
194	Yes	Sensitised donor sera	Yes		Yes	Always	Frozen	>-48		DTT
195	Yes	Sensitised patient sera	Yes		No	Not the same for identification (simple antigen)	Yes	-80	>-48	
204	Yes	Pooled sensitised patient	Yes		Yes	Same control for LABScreen SA kits, different for LABScreen mixed	Always	-20	>-48	EDTA, Adsorption beads
205	Yes	Sensitised patient sera, Manufacturer	Yes		Yes	Sometimes	Fridge	>-48		Dilution
206	Yes	Sensitised patient sera, Manufacturer	Yes		Yes	Yes	-30	<24	Adsorption beads	
208	Yes	Sensitised patient sera, NBSC	Yes		No	Strong PC used for all Luminex, low pos for antibody detection	Always	-30	>-48	
212	Yes	Kit Dependent	Yes		No	Kit Dependent	Always	4	24-48	Dilution
214	Yes	Manufacturer	Yes		Yes	Kit Dependent	Always	Frozen	>-48	Dilution
215										
216										
217										
222										
223										
227	Yes	Sensitised patient sera	Yes		Yes	Always	-40	>-48	EDTA	Dilution
229	Yes	Manufacturer	Yes		No	Always	-80	>-48	Adsorption beads	
230	Yes	Kit Dependent	Yes		Yes	Always	-20	24-48		
231	No		Yes		No	Yes	-12.5	>-48		
232	Yes	Manufacturer	Yes		Yes	Always	2-5	<24		
238	Yes	Pool of immunised patient sera	Yes		Yes	Always	4	>-48	N/A	
240	Yes	Manufacturer	Yes		Yes	Yes	-20	>-48	N/A	
241	Yes		Yes		Yes	Yes	Fridge	>-48	Heat Activation	
242	No		Yes		No	Always	Frozen	>-48	Adsorption beads	
245	Yes	Pooled sensitised patient sera	Yes		No	Other positive control for single antigen assays	Always	-25	24-48	EDTA, Adsorption beads
252	Yes	Manufacturer	Yes		Yes	We use the positive control present in the kit for each test	Yes	-20	>-48	N/A
254										
259	Yes	Immunised platelet donor	Yes		Yes	Sometimes	-24	24-48		Dilution
262	Yes		Yes		Yes	No	24-48			
264	Yes		Yes		Yes	Always	20	>-48		
268	Yes	Sensitised patient sera, Manufacturer	Yes		Yes	Yes	-20	>-48	N/A	
273	Yes	Sensitised patients	Yes		Yes	Always	4	24-48		
284	Yes	Sensitised patient sera	Yes		Yes	Always	-30	>-48	EDTA, Adsorption beads	Another frozen cycle
292	Yes	Sensitised patient sera	Yes		No	Kit Dependent	Always	-30	>-48	Adsorption beads
293	No		Yes		No	Yes	-70	>-48	Heat inactivation, Adsorption beads	
294	Yes	Manufacturer	Yes		Yes	Always	-20	24-48	Adsorption beads	
297	Yes	Sensitised patient	Yes		No	Yes	-20	>-48	Adsorption beads	
301										
302	Yes		Yes		Yes	Always	-30/-40	>-48		
303	Yes	Sensitised patient	Yes		Yes	Always	-20	>-48	Heat inactivation, EDTA, Adsorption beads	
309	Yes	Manufacturer	Yes		Yes	Sometimes	4	>-48	N/A	
311	Yes	Patient sera	Yes		Yes	Always	-80	>-48	EDTA, Adsorption beads	
315	No									
318	Yes	Manufacturer	Yes		Yes	Yes	5	24-48	EDTA	
322										
323	Yes	Sensitised patient sera	Yes		Yes	Sometimes	-80	>-48	EDTA	Dilution
335										
345										
351	Yes		Yes		Yes	Sometimes	2-8	24-48	N/A	
361										

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**LUMINEX TECHNIQUE INFORMATION**

No	Criteria?	Serum treatment	Incubation times?		Wash step details		First wash step		Second wash step		Buffer removed by	Software	Min bead count	Min pos control bead MFI	Data analysis
			Manufacturers	Other	Wash medium	Anything added	Washes	Volume (µl)	Washes	Volume (µl)					
9	High background		Supplied		No	5	200	5	200	Vacuum Manifold	Fusion	50	500	NC <500	
11	High background		Supplied		No	3	200	2	200	Centrifuge	Fusion	50	1000	NC >500	
12	High background		Supplied		No	5	175	5	175	Vacuum Manifold	Fusion	50	1000	NC >500	
14	High background		Supplied		EDTA	3	200	2	200	Centrifuge	Fusion	50	5000	Neg MFI <500, Pos/Neg ratio <2	
15			Supplied		EDTA	5	200	5	200	Vacuum Manifold	Fusion	50	PC>NC >2	NC >1500	
19			Supplied		No	5	200	5	200	Vacuum Manifold	Fusion	50	3500	>1500	
20			Supplied		No	5	200	4	200	Vacuum Manifold	Fusion	50	2000	NC >500MFI	
23	NC >1500		Supplied		No	2	200	3	200	LabXpress	Fusion	50	500	>1500	
24			Supplied		PRA=5	200	PRA=5	200	Vacuum Manifold	Fusion	50	3000	NC <500		
25			Supplied		No	5	220	5	220	Vacuum Manifold	Fusion	50	>500	NC >500	
26			Supplied		EDTA	5	200	5	200	Vacuum Manifold	Fusion	50	5000	NC >500	
28			Supplied		EDTA	4	100	4	100	Vacuum Manifold	Fusion	30	500	NC >500	
29	High background		Supplied		No	1	100	3	250	Vacuum Manifold	MatchIT	100	10000	Manufacturer	
34			Supplied		EDTA	5	200	5	200	Vacuum Manifold	Fusion	100	5000	NC >500	
38			Supplied	Modified Halifax Assay	No	3	200	2	200	Centrifuge	Fusion	80	1500	Neg control >500MFI	
39			Supplied		EDTA	5	200	5	200	Vacuum Manifold	Fusion	50	5000	NC >500	
41			Supplied		No	4	200	4	200	LabXpress	Fusion	50	1500	>500	
42			Supplied		No	3	200	3	200	Vacuum Manifold	Fusion	50	2000	NC >1500	
45			Supplied		No	4	200	4	200	Vacuum Manifold	Fusion end in house	50	5000	>500	
48			Supplied		No	3	250	3	150, 250	MatchIT, Fusion	Fusion	50	1000, 10000	Kit Dependent	
51	EDTA used for SA tests		Supplied		No	5	250	5	250	Vacuum Manifold	MatchIT, Fusion	50	5000	>500	
54			Supplied		No	3	200	3	200	Centrifuge	Fusion	40	1500	NC >500MFI	
58			Supplied		Kit Dependent	Kit Dependent	Kit Dependent	Kit Dependent	Kit Dependent	MatchIT, Fusion	MatchIT, Fusion	40	Kit Dependent	Kit Dependent	
62			Supplied		No	5	200	5	200	Vacuum Manifold	MatchIT	50	500	>500	
100			Supplied		No	3	250	3	250	Vacuum Manifold	MatchIT	50	1000MFI control serum	3 control beads above normal range	
101	High background		Supplied		No	3	250	3	250	Centrifuge	Fusion	100	4000	>500	
112			Supplied		No	1	100	3	250	Vacuum Manifold	MatchIT	60	12000	More than twice the maximum observed by the manufacturer	
114	Selected samples, Adsorb Out, ratio 1/10		Supplied		No	1	100	3	250	Centrifuge	Fusion	50	PC >1500	NC >500	
115			Supplied		No	3	200	3	200	Centrifuge	Fusion	50	500	raw data of NC 300-400	
117			Supplied		No	3	200	3	200	Centrifuge	Fusion	50	4000	NC >500MFI	
120	NC baseline >500 and/or PC baseline >4000		Supplied		No	3	200	2	200	Vacuum Manifold	MatchIT	60	3500	1000	
127			Supplied		No	3	200	2	200	Vacuum Manifold	MatchIT	60	500	PC NC <2	
128			Supplied		No	5	175	5	175	Vacuum Manifold	Fusion	50	10000	>1000	
133	High background		Supplied		No	3	250	3	250	Vacuum Manifold	MatchIT	60	10000	MFI >500	
138	All samples, Adsorb Out, ratio 1/10		Supplied		No	3	150	2	150	Centrifuge	Fusion	50	MFI >1000	NC >500	
139			Supplied		No	5	175	5	175	Vacuum Manifold	Fusion	50	3000	NC >1500MFI	
143			Supplied		No	3	200	2	200	Centrifuge	Fusion	100	2000	>500	
147			Supplied		No	4	250	4	250	Vacuum Manifold	Fusion	50	1500	NC >500MFI	
154			Supplied		No	5	175	6	175	Vacuum Manifold	Fusion	100	500	>500	
159			Supplied		No	5	175	5	175	Vacuum Manifold	Fusion	100	1500	>500	
160			Supplied		No	2	150	2	150	Centrifuge	Fusion	100	5000	NC >500MFI	
162			Supplied		EDTA	3	200	2	200	Centrifuge	Fusion	50	1500	NC >500MFI	
163			Supplied		EDTA	4	175	4	175	Vacuum Manifold	Fusion	50	4000	500	
164			Supplied		No	5	175	5	175	Vacuum Manifold	Fusion	50	>500	NC >1500	
169			Supplied		No	2	150	1	150	Centrifuge	Fusion	50	500	NC >500	
181			Supplied		No	5	175	5	175	Vacuum Manifold	Fusion	50	5000	High NC	
186			Supplied		No	3	250	3	250	Vacuum Manifold	MatchIT	50	10000	No criteria	
189			Supplied		No	1	100	3	250	Vacuum Manifold	MatchIT	50	3000	F >2 or NC <1500	
190			Supplied		No	3	200	2	200	Centrifuge	Fusion	100	2000	NC <500	
191			Supplied		No	3	150	3	150	Centrifuge	Fusion	100	raw data PC >1000	raw data NC >500	
193	All samples, added to sera, 0.1mol/L (0.2N), 3µl EDTA in 27µl sera/wash buffer, minimum incubation 10 mins, not stored		Supplied		No	3	200	2	200	Centrifuge	Fusion	100	raw data PC >1000	raw data NC >500	
194	All samples		Supplied		No	5	175	5	175	Vacuum Manifold	Fusion	100	MFI >500	MFI >500	
195			Supplied		No	4	175	4	175	Vacuum Manifold	Fusion	50	PC >5000	PC >10000	
204	High background		Supplied		No	1	150	4	1x100, 3x250	Vacuum Manifold	MatchIT	60	PC >10000	>1000	
205			Supplied		No	1	100	3	250	Vacuum Manifold	MatchIT	100	Sera >3500, PC >10000	Kit Dependent	
206			Supplied		No	1	100	2	250	Vacuum Manifold	MatchIT	100	3000	NC >500MFI	
208			Supplied		No	1	100	2	250	Vacuum Manifold	MatchIT	60	>10000	>1000MFI	
212	High background		Supplied		No	1	100	2	250	Vacuum Manifold	MatchIT	60	>10000	>1000MFI	
214	Selected samples (high CONs), distilled water, 1/5 or 1/10		Supplied		No	3	250	3	250	Vacuum Manifold	MatchIT	100	5000	BCM >300	
215			Supplied		No	3	250	3	250	Vacuum Manifold	MatchIT	100	5000	BCM >300	
217			Supplied		No	3	250	3	250	Vacuum Manifold	MatchIT	100	5000	BCM >300	
222			Supplied		No	3	250	3	250	Vacuum Manifold	MatchIT	100	5000	BCM >300	
227			Supplied		No	5	175	5	175	Vacuum Manifold	MatchIT, Fusion	50	1500 raw	>500 raw	
229			Supplied		No	1	150	3	250	Vacuum Manifold	MatchIT	50	>10000	>1000MFI	
230			Supplied		No	1	100	3	250	Vacuum Manifold	MatchIT	100	1000	>1000MFI	
231			Supplied		No	1	100	3	250	Vacuum Manifold	Luminex	500	1500	Internal control values	
232			Supplied		No	4	250	3	250	Vacuum Manifold	MatchIT	80	5000	NC out of range	
238			Supplied		No	1	100	3	250	Vacuum Manifold	MatchIT	60	3500	>1000MFI	
239			Supplied		No	4	1x100, 3x250	3	250	Vacuum Manifold	MatchIT	60	>10000	>1000MFI	
240			Supplied		No	3	200	2	200	Vacuum Manifold	MatchIT	80	10000	1000	
241			Supplied		No	3	200	2	200	Centrifuge	X-Porter 4.2	100	6000	NC >500MFI	
242			Supplied		Wash buffer	1	100	3	750	Vacuum Manifold	MatchIT	100	3132	NC >1000	
245	High background		Supplied		No	5	175	5	175	Vacuum Manifold	MatchIT	50	1500	NC >1000	
252			Supplied		No	4	first 100 (250 later)	3	250	Vacuum Manifold	MatchIT	50	1500	NC >1000	
254			Supplied		No	1	150	3	250	Vacuum Manifold	MatchIT	60	>10000	>1000	
259	High background		Supplied		No	1	150	3	250	Vacuum Manifold	MatchIT	60	>10000	>1000	
262			Supplied		No	3	250	3	250	Vacuum Manifold	MatchIT	50	3500	Kit Dependent	
264			Supplied		No	3	150	2	200	Centrifuge	Fusion	100	Apr-00	Kit Dependent	
268			Supplied		No	4	1x100, 3x250	3	250	Vacuum Manifold	MatchIT	60	3500	values for the 3 negative beads outside the expected ranges (manufacturer)	
273			Supplied		No	5	175	5	175	Vacuum Manifold	Fusion	50	>500	>500	
284	NC >500 = adsorb out, PC <5000 = frozen cycle		Supplied		EDTA	4	175	4	175	Vacuum Manifold	Fusion	50	5000	500	
292	High background		Supplied		No	3	200	3	200	Centrifuge	Fusion	50	5000	NC >500	
293	High MFI value		Supplied		No	3	1000	2	1000	Centrifuge	Fusion	100	PC >500 and <2 NC	NC >500	
294			Supplied		No	3	250	2	1000	Vacuum Manifold	MatchIT	60	>10000 PC and NC, >3500 sample patient	Cori-range	
297			Supplied		No	4	175	4	175	Vacuum Manifold	Fusion	50	1500	NC >500	
301			Supplied		No	3	250	3	250	Vacuum Manifold	MatchIT	10000	5000	NC >500MFI	
302			Supplied		No	3	200	3	200	Centrifuge	Fusion	50	5000	NC >500MFI	
303	NC >500MFI = adsorb out, PC <5000MFI = Heat inactivation		Supplied		No	3	200	3	200	Centrifuge	Fusion	50	5000	NC >500MFI	



**UK NEQAS for H&I Scheme 6 - HLA Antibody Detection**

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IgG Results - Additional Information

Lab No.	Methods used to test these samples:						Have the samples been treated?				
	CDC	Flow	ELISA	Luminex	Other	None	Dilution	Heat Inactivation	EDTA	Other	
9				SAM		Y					
11				M		Y					
12				M		Y					
14				SAM				Y			
15				M					Y		
19				M		Y					
20	Y			SAM	Sample 603 did not require Luminex SA testing				Y		
23				M					Y		
24				M		Y					
25				M					Y		
26				M					Y		
28	Y			M		Y					
29	Y			SAM						Adsorb Out/SeraClean Beads	
34				SAM					Y		
38				M		Y					
39				M						EDTA added to wash buffer	
41				M		Y					
42				M					Y		
45				M						Adsorb Out/SeraClean Beads	
48				SAM	Does not apply to all samples: Single antigen beads were only used if there was a discrepancy between the Labscreen mixed and the Lifecodes ID results. Samples 602, 605 and 606 all has single antigen class II testing performed to clear up any ambiguities.			Y		Does not apply to all samples: Heat inactivation was only relevant for samples 602, 605 and 606, as these all required single antigen testing using the Labscreen beads.	
51				SAM	Does not apply to all samples: 602/2017 was tested with class II single antigen.	Y			Y	Does not apply to all samples: 602 was tested with single antigens and so had EDTA treatment	
54				M	Sample 602 gave slightly high background but test still valid	Y					
58				M		Y					
62											
100				M		Y					
101	Y			M					Y		
112				SAM	Does not apply to all samples: 601, 602, 606						
114				M		Y					
115		Y		M		Y					
117			Y	M		Y					
120	Y			M					Y		
127				M		Y					
128				M		Y				Sample 1 in grey zone for class II antibody detection and we have to respond positive or negative. Adsorb Out/SeraClean Beads: Only used for samples with high background (602)	
133				M	Y			Y			
136	Y			M		Y					
139				M		Y					
143				M		Y					
147	Y			M		Y					
153	Y			M		Y					
154	Y			M		Y					
159	Y			M		Y					
160				M						Adsorb Out/SeraClean Beads	
162				M					Y		
163				M					Y		
164				M		Y					
169				M		Y					
181				M		Y					
186				M		Y					
189				M		Y					
190				M					Y		
191				SAM	603 class I, 604 class I and 605 class I were also tested with single antigen beads					Freeze-thaw and DTT	
193				M					Y		
194	Y			M						DTT	
195				M		Y					
204				M					Y		
205				M		Y					
206	Y			SAM	SA class I and class II tests have been performed for sera 606 because of the presence of high background. CDC performed only for class I screening	Y					
209				M		Y					
212				M			Y				
214				SAM		Y	Y				
215				M		Y					
216				M		Y					
217				M		Y					
222		Y				Y					
223	Y					Y					
227	Y			SAM					Y	DTT for CDC	
229					Fluoro Analyse					Does not apply to 606	
230						Y					
231				M							
232											
238	Y			SAM	Luminex single antigen made when "green zone" is found for antibody detection					DTT for CDC	
239				M		Y					
240				M		Y					
241		Y		M		Y					
242				M						Adsorb Out/SeraClean Beads	
245	Y			M					Y (only for Luminex)	DTT	
252				M		Y					
254				M		Y					
259				M		Y					
262				M		Y					
264				M			Y				
268	Y			M	CDC only for class I						
273				SAM	601,602,603 - only Luminex Mixed/Multi SA Class I and II 604 - M and SA Class II 606 - M and SA Class II	Y					
284	Y			M					Y		
292				M		Y					
293				M		Y					
294				M						Adsorb Out/SeraClean Beads	
297				M							
301											
302				M		Y					
303				M					Y		
309				M		Y					
311	Y			M					Y	DTT (CDC only)	
315	Y			M					Y		
318				M		Y					
322											
323				M					Y		
335	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
345		Y				Y					
351				SAM					Y		
361					Luminex Lifescreen Deluxe Kit	Y					

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Lab No.	601/2017				602/2017				603/2017				604/2017				605/2017					
	CI I	CI I	CI II	CI II	CI I	CI I	CI II	CI II	CI I	CI I	CI II	CI II	CI I	CI I	CI II	CI II	CI I	CI I	CI II	CI II		
	IgM	Method	IgM	Method	IgM	Method	IgM	Method	IgM	Method	IgM	Method	IgM	Method	IgM	Method	IgM	Method	IgM	Method		
9	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM
38	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Negative	LUM
42	Negative	CDC	Negative	CDC	Negative	CDC	Negative	CDC	Negative	CDC	Negative	CDC	Negative	CDC	Negative	CDC	Negative	CDC	Negative	CDC	Negative	CDC
147	Negative	CDC			Negative	CDC			Negative	CDC			Negative	CDC			Negative	CDC			Negative	CDC
154	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC
162	Negative	LUM	Negative	LUM	Positive	LUM	Negative	LUM	Negative	LUM	Negative	LUM	Positive	LUM	Negative	LUM	Positive	LUM	Negative	LUM	Negative	LUM
238	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC
315	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC	NT	NT	Negative	CDC

**UK NEQAS for H&I Scheme 6 - HLA Antibody Detection**

SAMPLES 6 01-06/2017

DESPATCHED ON 07TH MARCH 2017

IgM Results - Additional Information

Lab No.	Methods used to test these samples:					Have the samples been treated?				
	CDC	Flow	ELISA	Luminex	Other	None	Dilution	Heat Inactivation	EDTA	Other
9				M		Y				
38				M					Y	
42	Y					Y				
147	Y					Y				
154	Y									DTT
162				M					Y	
238										
315	Y					Y				