

UK NEQAS FOR H&I SCHEME 3 - HLA SPECIFICITY ANALYSIS

Samples 306-310/2016 DESPATCHED ON 28TH JUNE 2016

COMPLEMENT DEPENDENT CYTOTOXICITY (CDC) TECHNIQUE INFORMATION

Lab No	Technique	Cell source	Frozen trays	In-house/ Commercial	Panel		Complement source	Volume added (µl per well)				Incubation		Dead cell visualisation	Analysis Procedures	Software Manufacturer	Comments
					Composition	Size		Cells	Sera	Complement	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	
28	CDC	CI panels of selected lymphocytes	Yes	One Lambda	Selected	30	Cedarlane		1	5		30	60	Fluoroquench	Manual		
35	NIH	T-cells	Yes	One Lambda	Selected	28	Cedarlane					30	60	Fluoroquench	Manual		
42	Extended NIH	PBL	Yes	In-House	Random	40	TCS Biosciences	1	1	5	1 in 10% DTT			Fluoroquench	Manual		
116	NIH	B-cells	Yes	Biorad	Selected	26	Biorad		2	5		60	140	EB/AO	Manual		
136	NIH	PBL	No		Mixture	49	In-House	1	1	5		30	60	EB/AO	Computerised	One Lambda	
139	NIH	PBL	Yes	Gentrak	Selected	30	Cedarlane	1	2	5		30	60	Fluoroquench	Manual		
147		PBL	Yes	In-House	Selected	37	In-House	1	1	5	1µl DTT - 19µl sera	30	60	Fluoroquench	Computerised	One Lambda	
159	Classical CDC	PBL	Yes	In-House	Selected		In-House							EB/AO	Computerised	One Lambda	
190	LCT	T-cells	Yes	One Lambda	Mixture	28	Servibio		1	5		30	60	Fluoroquench	Manual		
194	CDC	PBL	Yes	In-House	Selected	42	In-House	1	1	1	1 (sera treated with DTT)	30	60	Fluoroquench	Computerised	One Lambda	
209	AGH	T-cells	Yes	GenTrak	Selected	30	GenTrak		2				75	Fluoroquench	Manual		
268	CDC AgH	T-cells	Yes	GenTrak	Random	60	GenTrak		2	5	1/10 ^e	30	60	Fluoroquench	Manual		
284	With and without DTT	PBL	No		Selected	30	Cedarlane	1	1	5	1	45	75	EB/AO	Manual/Computerised	Lymhoe	
294	AGH	T-cells	Yes	Commercial	Selected	60	Gentrak		2	5		30	60	Fluoroquench	Manual		

EB - ethidium bromide
AO - acridine orange
PI - propidium iodide
Hb - haemoglobin
CFDA - carboxyfluorescein diacetate

FLOW CYTOMETRY TECHNIQUE INFORMATION

Lab No	Flow Cytometer Model	Cell		Conjugate	Manufacturer	Software	Manufacturer
		preparations (number)	source				
165							

ELISA TECHNIQUE INFORMATION

Lab No	ELISA kit used	Batch No	Manufacturer	ELISA kit used	Batch No	Manufacturer	ELISA kit used	Batch	Manuf	Comments
117	LAT1288	007	One Lambda							
165										

UK NEQAS FOR H&I SCHEME 3 - HLA SPECIFICITY ANALYSIS

Samples 306-310/2016 DESPATCHED ON 28TH JUNE 2016

LUMINEX TECHNIQUE INFORMATION

Lab No	Kit used	Used for All/Selected	Criteria	Batch no.	Bead vol (µl)	Serum vol (µl)	Negative Control Source	Control Serum Details	Details of +/- cut off	Kit used	Used for All/Selected	Criteria	Batch no.	Bead vol (µl)	Serum vol (µl)	Negative Control Source	Control Serum Details	Details of +/- cut off	Kit used	Used for All/Selected	Criteria	Batch no.	Bead vol (µl)	Serum vol (µl)	Negative Control Source	Control Serum Details	Details of +/- cut off	
9	LS1A04	All	If Pos on LSM12	009	1.5	20	Manufacturer		500 MFI	LS2A01	All		011	2	20	Manufacturer		500 MFI	LSM12	All		020	2	8	Manufacturer		Ratio >2.5	
11	LS1A04	All		009	2	10	Manufacturer	Labscreen	>500 MFI	LS2A01	All		011	3	20	Manufacturer	Labscreen	500 MFI	LSM12	All		020	3	20	Manufacturer	Labscreen	Ratio 3	
12	LS1A04	All		009	2	10	Manufacturer		1500 MFI	LS2A01	All		011	2	10	Manufacturer		1500 MFI	LSM12	All								
14	LS1A04	All		009	2	8	Manufacturer	One Lambda	1000 MFI	LS2A01	All		015	2	8	Manufacturer	One Lambda	1000 MFI	LSM12	All								
15	LS1A04	All		009	2	8	Manufacturer		1000 MFI	LS2A01	All		011	2	8	Manufacturer		1000 MFI	LSM12	All								
19	LS1A04	All		009	2	8	Manufacturer	In house	1000 MFI	LS2A01	All		011	2	8	Manufacturer		1000 MFI	LSM12	All								
20	LS1A04	All		009	2	8	Manufacturer		500 MFI	LS2A01	All		011	2	8	Manufacturer		500 MFI	LSM12	All								
23	LS1A04	All		009	2.5	20	Manufacturer		1000 MFI	LS2A01	All		011	2.5	20	Manufacturer		1000 MFI	LSM12	All								
24	LS1A04	All		009	3	12	Manufacturer	015	1000 MFI	LS2A01	All		011	3	12	Manufacturer	015	1000 MFI	LSM12	All		020	3.5	14	Manufacturer	015	4.5	
25	LS1A04	All		009	2.5	10	Manufacturer	Addition of EDTA	1000 MFI	LS2A01	All		010	2.5	10	Manufacturer	Addition of EDTA	1000 MFI	LSM12	All		020	5	20	Manufacturer	Addition of EDTA	CI I 6.1, CI II 6.1	
26	LS1A04	All		009	2	8	Manufacturer	LS-NC lot 015	LS2A01	All		011	2	8	Manufacturer	LS-NC lot 015	LSM12	All				020	2.5	20	Manufacturer	LS-NC lot 015		
28	LS1A04	All		89410	3	20	Manufacturer		500 MFI	LS2A01	All		86262	3	20	Manufacturer		500 MFI	LSM12	All								
32	LS1A04	All		009	3	20	Manufacturer		1000 MFI	LS2A01	All		011	2	8	Manufacturer		1000 MFI	LSM12	All								
34	LS1A04	All		009	3	20	Manufacturer		1000 MFI	LS2A01	All		010	2.5	20	Manufacturer		1000 MFI	LSM12	All								
35	LS1A04	All		009	2.5	20	Manufacturer		1000 MFI	LS2A01	All		009	2.0	20	Manufacturer		1000 MFI	LSM12	All		019	2.5	20	Manufacturer		1000 MFI	
38	LS1A04	All		020	2.5	20	Manufacturer	NIBSC	500 MFI	LS2A01	All		011	2.5	20	Manufacturer		500 MFI	LSM12	All		011	2.0	20	Manufacturer		1000 MFI	
39	LS1A04	Selected	Multi pos samples	009	2	8	Manufacturer		1500 MFI	LS2A01	All	Selected	Multi pos samples	011	2	8	Manufacturer		1500 MFI	LSM12	All							
41	LS1A04	All		009	2.5	20	Manufacturer		2000 MFI	LS2A01	All		011	2.5	20	Manufacturer		2000 MFI	LSM12	All								
42	LS1A04	All		009	2.5	20	Manufacturer		1000 MFI	LS2A01	All		011	2.5	20	Manufacturer		1000 MFI	LSM12	All								
45	LS1A04	All		009	2.5	20	Manufacturer	In house / Manufacturer	1500 MFI	LS2A01	All		011	2.5	20	Manufacturer	In house / Manufacturer	1500 MFI	LSM12	All								
48	LS1A04	All	Lab alternates between manufacturer's	009	3	12	Manufacturer	Adjustments to manufacturer's instructions for use	1500 (and clinical history)	LS2A01	All	Lab alternates between manufacturer's	011	3	12	Manufacturer	Adjustments to manufacturer's instructions for use	1500 (and clinical history)	LSM12	All	Lab alternates between manufacturer's	020	3	12	Other	Adjustments to manufacturer's instructions for use. NIBSC is also the defaulted neg control	None	
51	LS1A04	All		009	2.5	10	Manufacturer		Not pre-defined	LS2A01	All		011	2.5	10	Manufacturer		Not pre-defined	LSAI	Selected			20	10	Manufacturer		Not pre-defined	
54	LS1A04	All		009	2	8	Manufacturer	One Lambda	>750	LS2A01	All		011	2	8	Manufacturer	One Lambda	>750	LSM12	All		020	2	8	Manufacturer	One Lambda		
58	LS1A04	All		009	2.5	10	Manufacturer		1000 MFI	LS2A01	All		011	2.5	10	Manufacturer		1000 MFI	LSM12	All		020	2.5	10	Manufacturer		Ratio >3.0	
82	LS1A04	All		009	2.5	10	Manufacturer		1000 MFI	LS2A01	All		011	2.5	10	Manufacturer		1000 MFI	LSM12	All								
100	LSAI	All		08245C	40	10	Manufacturer		Software derived	LSAI	All		09115A	40	10	Manufacturer		Software derived	LSAI	All								
101	LS1A04	All		009	5	20	Manufacturer		>1000	LS2A01	All		011	5	20	Manufacturer		>1000	LSM12	All								
112	LS1A04	All		009	5	20	Manufacturer	Class I negative control from manufacturer	Score >4	LSAI	All		02286M	40	10	Manufacturer	Class I negative control from manufacturer	>500 MFI	LSAI	All		01166S	40	10	Manufacturer	Class II negative control from manufacturer	>500 MFI	
114	LS1A04	All		009	2.5	10	Manufacturer	In house	1000 MFI	LS2A01	All		011	2.5	10	Manufacturer		1000 MFI	LSM12	All								
116	LS1A04	Selected	Mixed Class I pos samples	009	2.5	20	Manufacturer		1000 MFI	LS2A01	All	Selected	Mixed Class II positive samples	011	2.5	20	Manufacturer		1000 MFI	LSM12	All		020	2.5	20	Manufacturer		
117	LS1A04	All		009	5	20	Manufacturer		Normal MFI > 500	LS2A01	All		011	5	20	Manufacturer		Normal MFI > 500	LSM12	All								
119	LS1A04	Selected	Positive with LSM	009	100	20	Manufacturer		MFI >1000	LS2A01	Selected	Positive with LSM	011	100	20	Manufacturer		MFI >1000	LSM12	All		019	20	20	Manufacturer		Ratio 1.6	
120	LS1A04	Selected	Class I >4 MFI Clinician request	009	5	18	Manufacturer	No negative control	500 MFI	LS2A01	Selected	Class I >4 MFI Clinician request	011	5	18	Manufacturer	No negative control	800 MFI	LSM12	All								
133	LSAI	All		009	4	10	Manufacturer	Immucor	LMX	LSAI	Selected		011	5	12.5	Manufacturer	Immucor	1000 MFI	LSM12	All								
136	LS1A04	All		009	2.5	10	Manufacturer	In house	1000 MFI	LS2A01	All		011	2.5	10	Manufacturer	In house	1000 MFI	LSM12	All								
139	LS1A04	All		009	5	20	Manufacturer	Pool human sera	1000 MFI	LS2A01	All		011	5	20	Manufacturer	Pool human sera	1000 MFI	LSM12	All		020	5	20	Manufacturer	Pool human sera	Neg ratio <4, Pos ratio >6	
142	LS1A04	All		009	5	20	Manufacturer		1000 MFI	LS2A01	All		010	5	20	Manufacturer		1000 MFI	LSM12	All								
143	LS1A04	All	SAB used for SDA identification	009	5	20	Manufacturer		1000 MFI and reaction pattern	LS2A01	All	SAB used for SDA identification	010	5	20	Manufacturer		1000 MFI and reaction pattern	LSM12	All								
145	LS1A04	All		009	5	20	Manufacturer		>1000 MFI	LS2A01	All		010	5	20	Manufacturer		>1000 MFI	LSM12	All		020	5	20	Manufacturer		Ratio >5	
147	LS1A04	All		009	5	20	Manufacturer		>1000 MFI	LS2A01	All		011	5	20	Manufacturer		>1000 MFI	LSM12	All		020	5	20	Manufacturer		Ratio >5	
149	LSAI	All		08245C	40	10	Manufacturer		BCM >1500, BCR >3, AD-BCR >4	LSAI	All		01166S	40	10	Manufacturer		BCM >1500, BCR >3, AD-BCR >4	LSM12	All								
157	LS1A04	Selected	Positive in LSM12	009	2.7	10	Manufacturer		1000 MFI	LS2A01	Selected	Positive in LSM12	011	2.7	10	Manufacturer		1000 MFI	LSM12	All								
159	LS1A04	All		009	5	20	Manufacturer		>1500	LS2A01	All		010	5	20	Manufacturer		>1500	LSM12	All								
160	LS1A04	All		009	5	20	Manufacturer	CLINS, provided by HLA Fusion 3.0 program of analysis	>1500	LS2A01	All		010	5	20	Manufacturer	CLINS, provided by HLA Fusion 3.0 program of analysis	>1500	LSM12	All								

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162	LS1A04	Selected	Only positive screening	009	2	10	In house		1000	LS2A01	Selected	Only positive screening	011	2	10	In house		1000	LSM12	All		020	2.2	10	In house		3	
163	LS1A04	All		009	5	18	In house	Unsensitised male	pos 1500 MFI neg 500 MFI	LS2A01	All		011	5	18	In house		1000	LSM12	All								
164	LS1A04	Selected	Screening LSM12 ratio >4	82428	2.5	20	Manufacturer	+internal NC	1500MFI	LS2A01	Selected	Screening LSM12 ratio >4	79898	2.5	20	Manufacturer	+internal NC	1500MFI	LSM12	All		63524	2.5	20			Ratio >4	
165	LS1A04	Selected	Mixed pos samples if LMX reactive or doubtful	009	5	20	Manufacturer		1000 MFI 500 MFI	LS2A01	Selected	Mixed pos samples if LMX reactive or doubtful	011	5	20	Manufacturer		1000 MFI 500 MFI	LSM12	All		020	5	20	Manufacturer		Ratio = 5	
181	LSAII	Selected		LSA1-160701-B	40	10	Manufacturer			LSAII	Selected		LSA2-160701-A	40	10	Manufacturer			LMX	All		3003808 3003283	5	12.5	Manufacturer			
186	LS1A04	All		009	5	20	Manufacturer		1000	LS2A01	All		011	5	20	Manufacturer		1000	LSAI	All		08245C_08155 T	40	10	Manufacturer		1000	
190	LS1A04	All		62	5	20	Manufacturer		>1000 MFI	LS2A01	All		62	5	20	Manufacturer		>1000 MFI	LSM12	All		62	5	20				
193	LS1A04	All		009	5	20	Manufacturer			LS2A01	All		011	5	20	Manufacturer				All								
194	LS1A04	All		009	5	20	Manufacturer			LS2A01	All		011	5	20	Manufacturer				All								
195	LS1A04	All		009	5	20	Manufacturer			LS2A01	All		011	5	20	Manufacturer				All								
197	LS1A04	All	Routinely known Pos or screening Pos samples	009	2.5	20	Manufacturer	LS-NC	1000 MFI	LS2A01	All	Routinely known Pos or screening Pos samples	011	2.5	20	Manufacturer	LS-NC	1000 MFI										
206	LS1A04	All		009	5	20	In house		1000 MFI	LS2A01	All		011	5	20	In house		1000 MFI										
209	LS1A04	All		009	2.5	20	Manufacturer	LS-NC	Normalise 4 MFI >500	LS2A01	All		011	2.5	20	Manufacturer	LS-NC	Normalise 4 MFI >500										
214	LMX	All		3003808	5	12.5	Manufacturer		1000		All			40	10	Manufacturer		Reactivity pattern										
218	LSAI	All		40	10	Manufacturer			Reactivity pattern	LSAII	All					Manufacturer												
227	LS1A04	All		5	20	Manufacturer			1000 baseline	LS2A01	All		5	20	Manufacturer			1000 baseline	LSM12	All			5	20	Manufacturer		3.6 NGB Ratio	
232	LS1A04	All		009	5	20	Manufacturer		1000 MFI	LS2A01	All		011	5	20	Manufacturer		1000 MFI										
235	LS1PRA	All		001	5	20	Manufacturer		1000 MFI	LS2PRA	All		001	5	20	Manufacturer		1000 MFI	LSM12	All		001	5	20	Manufacturer		1000 MFI	
238	LSAI	All					Manufacturer		Positivity software	LSAII	All					Manufacturer		Positivity software										
245	LS1A04	All		009	4	20	No negative control		Positive >1000 Negative <500	LS2A01	All		011	4	20	No negative control		Positive >1000 Negative <500	LM1	All								
262	LSAI	All		08245C	40	10	Manufacturer		AD BCR >5	LSAII	All		01166S	40	10	Manufacturer		AD BCR >5										
267	LSAI	All		02286M	40	10	Manufacturer		BCM >500	LSAII	All		01166S	40	10	Manufacturer		BCM >700	LMX	All		3003153	5	12.5	Manufacturer		Software default criteria >1000 MFI	
268	LSAI	All		02286M 1223513	5	12	Manufacturer		>1500 MFI	LSAII	All		01166S 11195A	5	12	Manufacturer		>1500 MFI	LM1	All		3003479 3003415	5	12				
273	LS1A04	All		009	5	20	Manufacturer		1500 MFI or > score 4	LS2A01	All		011	5	20	Manufacturer		1500 MFI or > score 4										
277	LS1A04	Selected	Prescription by Dr	009	4	16	Manufacturer	LS-NC	500 MFI	LS2A01	Selected	Prescription by Dr	011	4	16	Manufacturer	LS-NC	500 MFI										
284	LS1A04	All		66545	5	20	Manufacturer	OLI LS-NC	>1000 MFI	LS2A01	All		67688	5	20	Manufacturer	OLI LS-NC	>1000 MFI	LSM12	All		63524	5	20	In house	Sera from AB+ man without transfusion	Ratio >3	
292	LS1A04	Selected	Mixed positive for Class I	009	3	18	Manufacturer		500 MFI	LS2A01	Selected	Mixed positive for Class II	011	3	18	Manufacturer		500 MFI	LSM12	All			5	20				
293	LS1A04	Selected		009	5	20	Manufacturer		500 MFI	LS2A01	Selected		011	5	20	Manufacturer		500 MFI										
294	LSAI	All		08245C	40	10	Manufacturer		Manufacturer criteria	LSAII	All		09115A	40	10	Manufacturer		Manufacturer criteria	LMX	All		3002973	5	12.5			Manufacturer criteria	
297	LS1A04	All		009	3	18	Manufacturer	LS-NC	1500 MFI >1000 MFI	LS2A01	All		011	3	18	Manufacturer	LS-NC	1500 MFI >1000 MFI										
303	LS1A04	All		009	2.5	20	Manufacturer			LS2A01	All		011	2.5	20	Manufacturer												
309	LSAI	All	Immucor only	06206A	40	10	Manufacturer		Software preferences	LSAII	All	Immucor only	06159K	40	10	Manufacturer		Software preferences	LM1	All				5	12.5	Manufacturer		Software preferences
311	LS1A04	All		009	5	18	Manufacturer		1500 >2000 MFI	LS2A01	All		011	5	18	Manufacturer		1500 >2000 MFI										
315	LS1A04	All		009	5	20	Manufacturer			LS2A01	All		011	5	20	Manufacturer												
323	LS1A04	All		009	5	20	Manufacturer	Negative patient sera known	Establish with known patients results and quality control	LS2A01	All		011	5	20	Manufacturer	Negative patient sera known	Establish with known patients results and quality control										
351	LSAI	All	All referred cases both negative and positive are tested with SA Class I	3003479	5	12.5	Manufacturer	Following the manufacturer instructions	1500	LSAII	All	All referred cases both negative and positive are tested with SA Class II	3003533	5	12.5	Manufacturer	Following the manufacturer instructions	1500										

Lifecodes LM1 Class I ID Kit LM2 Class II ID Kit LMX Lifecodes Lifescreen Deluxe Kit LSAI Lifecodes Lifescreen SA Class I LSAII Lifecodes Lifescreen SA Class II LSAI&II Lifecodes Lifescreen SA Class I&II LSA&MIC Lifecodes Lifescreen SA MICA	One Lambda LS1PRA LS2PRA LS12PRA LS1A04 LS2A01 LSM12 LSMUTR	LABScreen PRA Class I LABScreen PRA Class II LABScreen PRA Class I&II LS SA Class I LS SA Class II LS Mixed Class I&II LABScreen Multi	Class I ID Kit Class II ID Kit Lifecodes Lifescreen Deluxe Kit Lifecodes Lifescreen SA Class I Lifecodes Lifescreen SA Class II Lifecodes Lifescreen SA Class I&II Lifecodes Lifescreen SA MICA
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Note: UK NEQAS for H&I have used participant and manufacturer's information to aid consistency with methodological information. Please report any errors to Deborah Pritchard on UKNEQASHandI@wales.nhs.uk

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LUMINEX TECHNIQUE INFORMATION

Lab No	Kit used	Used for All/Selected	Criteria	Batch no.	Bead vol (µl)	Serum vol (µl)	Negative Source	Control Serum Details	Details of +/- cut off	Kit used	Used for All/Selected	Criteria	Batch no.	Bead vol (µl)	Serum vol (µl)	Negative Source	Control Serum Details	Details of +/- cut off	Kit used	Used for All/Selected	Criteria	Batch no.	Bead vol (µl)	Serum vol (µl)	Negative Source	Control Serum Details	Details of +/- cut off									
9																																				
11																																				
12																																				
14																																				
19																																				
20																																				
23																																				
24	LS1PRA	All		016	3.5	14	Manufacturer	015	1000 MFI	LS2PRA	All		015	3.5	14	Manufacturer	015	1000 MFI	LSAI	All		05265D	20	5	Manufacturer	Manufacturer defaults	LSAII	All		05265A	20	5	Manufacturer	Manufacturer defaults		
25	LSAI	All		082450	20	5		Addition of EDTA	1000 MFI	LSAII	All		09115A	20	5		Addition of EDTA	1000 MFI																		
26																																				
28																																				
34																																				
35																																				
38	LSAI						Manufacturer	Lifecodes	Software	LSAII	All					Manufacturer	Lifecodes	Software	LMX	All		3002956	2.5	12.5	Manufacturer	Lifecodes	Software									
39																																				
41																																				
42																																				
45																																				
48	LSAI	All	Lab alternates between manufacturers	08245C	20	8	Manufacturer	Adjustments to manufacturer's instructions for use.	None	LSAII	All	Lab alternates between manufacturers	05285A	20	8	Manufacturer	Adjustments to manufacturer's instructions for use.	None	LM1	All	Lab alternates between manufacturers	3002701	2	8	Manufacturer	Adjustments to manufacturer's instructions for use.	None	LM2	All	Lab alternates between manufacturers	3002807	2	8	Manufacturer	Adjustments to manufacturer's instructions for use.	None
51	LSAII	Selected			20	10	Manufacturer		Not pre-defined																											
54																																				
58	LSAI	All			20	10	Manufacturer			LMX	All		2973	2.5	6.25	Manufacturer		2/3 adjusted ratios (v con1, 2 or 3) > 0.0																		
62																																				
100																																				
101																																				
112																																				
114																																				
116																																				
117																																				
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160																																				

UK NEQAS FOR H&I SCHEME 3 - HLA SPECIFICITY ANALYSIS

Samples 306-310/2016

DESPATCHED ON 28TH JUNE 2016

LUMINEX TECHNIQUE INFORMATION

Lab No	Positive control serum for Luminex testing?	Source	Every run?	1,2 Positive control serum		1,3		1,4 Serum treatment		Criteria?	
				If no:	Same serum?	If no:	Same serum?	Methods used?	Extra Information		
9	Yes	Sensitised patient sera	No	Once a week on batches >15	Yes	Yes - sometimes	Frozen (-20°C)	>48	Dilution	Selected samples, AB serum, 1 in 4, 1 in 8	High background, high NC, multispecific with very high MFI values
11	Yes	Sensitised patient sera	Yes		No	Yes - always	Frozen (-40°C)	>48	Adsorption beads	Selected samples, Adsorb Out, 1:10	
12	No					Yes - sometimes	Frozen (-20°C)	24-48	Adsorption beads, EDTA	EDTA: All samples, Added to sera, EDTA K2 Salt Dihydrate 6% w/v solution, 5µl EDTA in 95 µl sera/buffer. No minimum incubation time, Stored sometimes - aliquoted into EDTA at sample processing, stored -20°C until testing Heat Inactivation: All samples, 30 mins at 56°C	Adsorb out: only for samples with High Background (NC MFI >500)
14	Yes	Sensitised PT sera	Yes		No	Yes	Frozen	>48	Heat inactivation, EDTA	EDTA: All samples, Added to wash buffer, 4.5mM, 0.436µl EDTA in 260µl sera/buffer. No minimum incubation time, Not stored	MFI >20,000
15	Yes	Pool of sensitised patients	Yes		Yes	Yes	Fridge (4-8°C)	>48	EDTA, Dilution	EDTA: All samples, Added to wash buffer, 0.1M, 1µl EDTA in 21.2µl sera/buffer. No minimum incubation time, Not stored	
19	Yes	Sensitised patient sera	Yes		Yes	Yes	Room temperature	24-48	EDTA	Dilution: Selected samples, wash buffer, 1:10 + 1:100 EDTA: All samples, Added to wash buffer, 4.5mM	
20	Yes	Sensitised patient sera	Yes		No	Yes - always	Frozen (-40°C)	>48	EDTA	All samples, Added to sera, 6%, 20µl EDTA in 380µl sera/buffer. No minimum incubation time, Stored sometimes - prepared samples are stored with EDTA following testing. If a repeat test is required this stored sample is retrieved for testing	
23	Yes	Positive patient sera diluted 1:2	Yes		Yes	Yes - always	Frozen (-35°C)	>48	N/A		
24	Yes	Manufacturer or sensitised patient serum	Yes		No	Yes - always	Frozen (-30°C)	>48	Adsorption beads, EDTA	EDTA: All samples, Added to sera, 6%, 3µl EDTA in 57µl sera/buffer. No minimum incubation time, Stored sometimes - Are often EDTA treated and adsorbed the day before being tested. Stored overnight at -20°C	High background samples are adsorbed.
25	Yes	Sensitised patient sera	No	Only for batch acceptance	No	Yes	Frozen	>48	Adsorption beads, EDTA	EDTA: All samples, Added to sera, 6% EDTA, 20µl EDTA in 380µl sera/buffer. No minimum incubation time, Stored - frozen after EDTA addition	High background prescreens NC value greater than 500
26	Yes	Yes	Yes		Yes	Yes - sometimes	Fridge (4°C)	<24	EDTA	Selected samples, Added to buffer, 30 mins minimum incubation time, Not stored	
28	Yes	Sensitised patient sera	Yes		Yes	Yes	Frozen (-40°C)	>48	Adsorption beads, EDTA	EDTA: Selected samples, SeraClean, 1.7	Samples suspected of having prozone
34	Yes	Sensitised patient sera	Yes		Yes	Yes - sometimes	Fridge (2-8°C)	24-48	EDTA	All samples, Added to buffer, 4.5µl EDTA in 100µl sera/buffer. No minimum incubation time, Not stored	
35	Yes	Sensitised patient sera	Yes		Yes	Yes	Fridge (2-8°C)	24-48	EDTA	All samples, Added to buffer, 30 mins minimum incubation time, Not stored	
38	Yes	Sensitised patient sera	No	Every mixed run and all Lifecodes runs and once per week for Bag	No	Yes - always	Frozen	24-48	EDTA	Selected samples, Added to sera, 6%, 10µl EDTA in 90µl sera/buffer. No minimum incubation time, Not stored	
39	Yes	For every run, 1) an in house positive control is included sourced from pooled sensitised patient sera as well as 2) in house performance monitoring control selected from a sensitised patient serum	Yes		Yes	Yes - always	Frozen (-40°C)	>48	Adsorption beads, EDTA	EDTA: All samples, Added to buffer, 0.1M EDTA, 20µl EDTA in 120µl buffer. No minimum incubation time, Not stored	Samples with high background are treated with adsorb out beads
41	Yes	Pooled sensitised patient sera	No	Every labscreen mixed run consignment validation of SA beads	No	Yes - always	Frozen (-40°C)	>48	Adsorption beads	Adsorb out, 1:9	
42	Yes	Sensitised patient sera	No	Used in a run where a new lot is being used of when a new delivery for previous lot is being used	Yes	Yes - always	Frozen (-40°C)	24-48	Adsorption beads, EDTA	Adsorb out, 4:40, sera, 6% EDTA solution, 10µl EDTA in 90µl sera/wash buffer, Minimum incubation time 10 min, Stored following treatment at -40 until tested	
45	Yes	Pooled multiple sensitised patient sera	Yes		Yes	Yes - always	Frozen	>48	Adsorption beads, EDTA	EDTA: All samples, Added to sera, 6%, 5µl EDTA in 95µl sera/buffer. No minimum incubation time, Not stored	
48	Yes	Pooled sensitised patient sera	No	Not used for single antigen testing. Currently only used for LabScreen Mixed Class I and II antibody testing. In this setting it would be used on every run	No	Yes - sometimes	Frozen (-20°C)	>48	Adsorption beads, Heat inactivation	EDTA: All samples, Added to sera, 0.5µl EDTA in 10µl sera/buffer. No minimum incubation time, Not stored Dilution: All samples, diluted in wash buffer, 1 in 2 Selected samples, Adsorb Out, 1:10	High background
51	Yes	Pooled sensitised patient sera	Yes		Yes	Yes	Frozen (-40°C)	>48	Adsorption beads, EDTA, Dilution	EDTA: All samples, Added to sera, 0.5µl EDTA in 10µl sera/buffer. No minimum incubation time, Not stored Dilution: All samples, diluted in wash buffer, 1 in 2	Samples with high NC value (>500)
54	Yes	Sensitised patient sera	Yes		No	Yes - always	Frozen (-20°C)	>48	Adsorption beads, EDTA	EDTA: All samples, Added to sera, 0.1M, 1µl EDTA in 9µl sera/wash buffer. No minimum incubation time, Not stored	EDAT treatment used for all SAB testing. Foetal calf serum used to treat high background serum on second round of testing
58	Yes	Manufacturer / in house sensitised patient sera	Yes		No	Yes - always	Frozen (-15 to -20°C)	>48	EDTA, Foetal Calf Serum	EDTA: Selected sample, Added to sera, 0.2µl EDTA in 47.5µl sera/buffer. No minimum incubation time, Not stored FCS: Added to 5% of total serum volume, Selected samples	
62	Yes	Tepnal Lifecodes	Yes		Yes	Yes - always	Frozen (-70°C)	>48	N/A		
100	Yes	Manufacturer	Yes		No	Yes - always	Frozen (-20°C)	>48	N/A		
101	Yes	Sensitised patient sera	Yes		Yes	Yes - always	Frozen (-20°C)	>48	Adsorption beads, DTT	Beads: Selected samples DTT: Selected samples	High background for adsorption; complement and IgM interference detection for DTT
112	Yes	Sensitised patient and commercial kit (included in every kit)	Yes		No	Yes - always	Frozen (-30°C)	>48			
114	Yes	Sensitised patient sera	Yes		Yes	Yes - sometimes	Frozen (-20°C)	24-48	Adsorption beads, EDTA	EDTA: All samples, Added to sera, 6%, 2.5µl EDTA in 47.5µl sera/buffer. No minimum incubation time, Not stored	Samples with high background
116	No					Yes - always	Frozen (-20°C)	>48	Adsorption beads, EDTA	EDTA: All samples, Added to sera, 6%, 1µl EDTA in 19µl sera/buffer. No minimum incubation time, Not stored	Samples with high background are retested with Adsorb Out
117	No					Yes - always	Frozen (-65°C)	>48	Adsorption beads	Selected samples, Adsorb Out, 1:10	Adsorb out samples with high background
119	No					Yes - always	Frozen (-20°C)	>48	Adsorption beads, EDTA	EDTA: All samples, Added to sera, 6%, 1µl EDTA in 19µl sera/buffer. No minimum incubation time, Not stored	- Adsorption is carried out when Negative control beads NC baseline >500 and/or Positive control beads PC baseline <400.
120	No					Yes - always	Frozen (-20°C)	24-48	Adsorption beads, EDTA, Dilution	EDTA: All samples, Added to sera, 0.1M pH 7.5, 2µl EDTA in 18µl sera/buffer, 15 mins minimum incubation time, Not stored Dilution: Selected samples, PBS, 1:8	- Dilution 1:8 is carried out when adsorption is not sufficient to allow test validation according to PCNC quality values We treat with adsorption beads if we get a high background
133	Yes	Manufacturer (Immucor)	Yes		Yes	Yes - always	Frozen (-20°C)	>48	Adsorption beads	Selected samples, SeraClean, 12,5	
136	Yes		Yes		No	Yes - sometimes	Fridge (4°C)	<24	Adsorption beads	Selected samples, Adsorb Out, 1:10	
139	Yes	Sensitised patient sera	Yes		No	Yes - always	Frozen (-30°C)	>48	Adsorption beads	Selected samples, Adsorb Out, 500	
142	Yes	Sensitised patient sera	Yes		Yes	Yes - sometimes	Frozen (-20°C)	24-48	Adsorption beads, EDTA	EDTA: All samples, Added to sera, 0.2M, 5µl EDTA in 50µl sera/buffer. No minimum incubation time, Not stored	Adsorption beads are used for samples with high background
143	No					Yes - always	Frozen (-20°C)	>48	N/A		
145	No					Yes - sometimes	Up to 2 weeks at 4°C. Longer periods are stored at -30°C or -80°C as we do for routine samples	>48	N/A		
147	Yes	Mix of three sensitised patients	Yes		Yes	Yes - always	Fridge (4°C)	>48	EDTA	EDTA: Selected samples, Added to sera, 0.1 mol, 2µl EDTA in 18µl sera/buffer, 10 mins minimum incubation time, Not stored	LCT was positive in Class I for this serum (310/2016) with high MFI in the first result with Luminex technology so we verified there were not Zone Effect
149	Yes	Manufacturer	Yes		No	Yes - always	Frozen	>48	Adsorption beads, Dilution	Beads: Selected samples, SeraClean, 4:20 Dilution: Selected samples, Wash buffer, 1 in 4	High Background
157	Yes	Sensitised female donors	Yes		Yes	Yes - always	Fridge (4°C)	24-48	EDTA	All samples, Added to sera, 6%, 1µl EDTA in 10µl sera/buffer. No minimum incubation time, Not stored	
159	Yes		Yes		Yes	Yes - always	Frozen (-25°C)	>48	Heat inactivation	All samples, 30 mins at 56°C	
160	No					Yes - always	Fridge (4-6°C)	>48	Adsorption beads	All samples, Adsorb Out, 5:20	
162	No					Yes - always	Frozen (-20°C)	24-48	EDTA	All samples, Added to sera, 6%, 10µl EDTA in 190µl sera/buffer. No minimum incubation time, Stored - always, -20°C for 24-48h	

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163	Yes	Sensitised patient sera	Yes	No	A sensitised patient sera for Labscreen mixed, another sensitised patient sera for Labscreen SA	Yes - always	Frozen (-30°C)	>48	Adsorption beads, EDTA	Beads: Selected samples, Adsorb Out, 500	
164	Yes	Sensitised patient sera	Yes	Yes		Yes - sometimes	Fridge (5°C)	>48	NA	EDTA: All samples, Added to sera, 0.1M, 2µl EDTA in 18µl sera/wash buffer, 10 mins minimum incubation time, Not stored	
165	No		No	No		Yes - always	Frozen (-20°C)	>48			
181	Yes	Sensitised patients pool	Yes	No	One for class I, one for class II	Always	-20	>48	Adsorption beads	Adsorb out, 1 in 10, Dilution in AB serum, 1 in 10 or 1 in 5	
185	Yes	Kit dependent	Yes	Yes		Yes	Frozen (-25°C) Rarely directly tested without freezing (e.g. Urgent samples)	24-48	Adsorption beads, EDTA	=====	
186	Yes	Manufacturer	Yes	No	Only with LMX kit	Yes	Frozen	>48	Adsorption beads	Selected samples, adsorb out	
190	Yes		Yes	No	Kit dependent	Always	-40	>48	EDTA	Sera, 0.1M, 2µl EDTA in 18µl sera/wash buffer, minimum EDTA incubation time 10 min, Dilution in NaCl, 1 in 10 or 1 in 50	
193	Yes	Sensitised patients sera	Yes	Yes		Always	Frozen (-35°C)	24-48	EDTA	All samples, added to sera, 0.100L (0.2N), 3µl EDTA in 27µl sera/wash buffer, minimum EDTA incubation time 10 min, Not stored	
194	Yes	Sensitised donor sera	Yes	Yes		Yes - always	Frozen	>48	DTT	All samples	
195	Yes	Sensitised patients sera	Yes	No	Not the same than for detection	Yes	Frozen	>48			
197	No		No	No							
204	Yes	Sensitised patients pool	Yes	Yes	Kit dependent	Always	-20	>48	Adsorption beads, EDTA	Adsorb out, 1/10, Sera, 0.1M, 2µl EDTA in 18µl sera/wash buffer, minimum EDTA incubation time 10 min	Adsorption beads: Samples with high background
206	Yes	Sensitised patients sera	Yes	Yes		Yes	<-30	>48	Adsorption beads, EDTA	Adsorb out, NC>500MFI, sera, 0.1M, 10µl EDTA in 90µl sera, minimum EDTA incubation time 15 min	
209	Yes	Sensitised patients pool from NIBSC	Yes	No	A specific control is used in screening Luminex assays	Always	-30	0->48	Adsorption beads, EDTA	Adsorb out, sera, 0.1625M, 3µl EDTA in 57µl sera/wash buffer, minimum EDTA incubation time 10 min	
214	Yes	Manufacturer	Yes	Yes		Yes - always	Frozen	>48	Dilution	Selected samples, distilled water, 1/5 or 1/10	Sample with high CONs
218	Yes	Kit dependent	Yes	No	Kit dependent	Always	-80	>48	Adsorption beads, Heat inactivation	SeraClean, 56°C for 30min	
227	Yes	Sensitised patients sera	Yes	Yes		Always	-40	>48	EDTA	Sera, 0.1M, 10µl EDTA in 90µl sera/wash buffer, stored after treatment +5 or -40, Dilution in wash buffer 1 in 10	All samples were also tested without any treatment
232	Yes	Kit dependent	Yes	Yes	Kit dependent	Always	-60, 5	>48			
235	No		No	No		Yes	-20	24-48	Adsorption beads	Adsorb out, 1/10, Dilution in PBS 1 in 8	
238	Yes	Sensitised patient	Yes	Yes		Yes	-20	>48			
245	No		No	No		Always	-25	>48	Adsorption beads, EDTA	Adsorb out, 3µl per 30µl, sera, 0.1M, 20µl EDTA in 180µl sera/wash buffer, minimum EDTA incubation time 10 min	Samples with high background
262	Yes	Human immunized platelet donor	Yes	Yes		No		24-48			
267	Yes	Positive control serum is included in kits	Yes	No	Each kit has its own positive control serum	Yes - always	Frozen (-30°C)	>48	EDTA	Selected samples, added to sera, 0.125M, 2µl EDTA in 20µl sera/wash buffer, no minimum incubation time, not stored	Sensitised patient sera & high background sera
268	Yes	Sensitised patient and positive control from the kit	Yes	Yes			Frozen (-20°C)	>48			
273	Yes	Sensitised patients	Yes	Yes		Yes - always	Fridge	24-48			
277	Yes	Previous NEQAS samples, tested last year	No	Once for lot control (each new lot)		Yes	Frozen (-30°C)	24-48	Adsorption beads, EDTA	Beads: All samples, adsorb out, neg bead ratio >1500	
284	Yes	Sensitised patient sera	Yes	Yes		Always	-30	>48	Adsorption beads, EDTA	EDTA: All samples, added to sera, 6%, 5µl EDTA in 95µl sera, no minimum incubation time, not stored (immediately centrifuge and test subsequently)	If NC>500 - adsorb out treatment if PC<5000 - supplemental frozen cycle
292	Yes	Sensitised patient sera pool	Yes	No	Kit dependent	Always	-30	>48	Adsorption beads, EDTA	Adsorb out, NC>500, Sera, 0.1 mol/l, 3µl EDTA in 27µl sera/wash buffer, minimum EDTA incubation time 10 min on agitation, Another frozen cycle	Only samples with high background are treated with adsorption beads
293	No		No	No		Sometimes	-70			Adsorb out, 3µl/30µl (0.1), 30min at 56°C	High MFI value in NC beads
294	Yes	Kit dependent	Yes	Yes		Always	Frozen	24-48	Adsorption beads, Heat inactivation	SeraClean	
297	Yes	Sensitised patient	Yes	No		Yes	Frozen	>48	Adsorption beads, EDTA	1/10, Sera, 2µl EDTA in 18µl sera, minimum EDTA incubation time 10 min	
303	Yes	Sensitised patient	Yes	Yes		Always	-20	>48	Adsorption beads, Heat inactivation, EDTA	Adsorb out, 1:10, 30min 56°C, Sera, 6M, 1µl EDTA in 20µl sera/wash buffer, minimum EDTA incubation time 5 min	Samples with NC bead<500MFI are treated with Adsorb out samples with PC bead <500MFI are heat inactivated
309	Yes	Manufacturer	Yes	No	Use the kit/lot specific serum of manufacturer						
311	Yes	Patient sera	Yes	Yes		Yes - always	Frozen (-80°C)	>48	Adsorption beads, EDTA	Beads: Selected samples, Adsorb Out	
315	No		No	No		Yes	Fridge (2-8°C)	24-48	Adsorption beads, EDTA	EDTA: All samples, added to sera, 0.1M, 2µl EDTA in 18µl sera/wash buffer, minimum EDTA incubation time 10 min, not stored	
323	Yes	Sensitised patient sera	Yes	Yes		Yes	-80	>48	EDTA	Beads: Selected samples, Adsorb Out, 2µl beads 20µl serum	
325	Yes	Sensitised patient sera	Yes	Yes		Yes	-80	>48	EDTA	EDTA: All samples, added to sera, 0.0999mol/L, 10µl EDTA in 90µl sera, minimum EDTA incubation time 15 min, not stored	
351	Yes	Sensitised patient sera	Yes	Yes		Yes	Fridge (2-8°C)	24-48		Sera, 0.1M, 2µl EDTA in 18µl sera/wash buffer, minimum EDTA incubation time 10 min, Dilution in sera 1 in 10	

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Lab No	1.5 Incubation times	1.6 Wash step details						1.7 Data analysis			
		Wash medium	Anything added	First wash step		Second wash step		Software	Min bead count	Min pos control bead MFI	High background criteria
			Washes	Volume (µl)	Washes	Volume (µl)					
9	As per manufacturer's instruction	Manufacturer supplied	No	5 200	5	200	Vacuum manifold	HLA Fusion	50	500	High NC, all beads positive with no negative specificities
11	As per manufacturer's instruction	Manufacturer supplied	No	3 200	2	200	Centrifuge, "lick and blot"	HLA Fusion	50	1000	>1000
12	As per manufacturer's instruction	Manufacturer supplied	No	5 175	5	175	Vacuum manifold	HLA Fusion	50	Pos control bead fluorescence value should be >500 and at least twice the NC value	Test sera with neg control bead values between 500-1500 should be reviewed with reference to patient sensitisation history. Test sera with neg control bead values over 1500 MFI will be treated with Adsorb Out beads.
14	As per manufacturer's instruction	Manufacturer supplied	EDTA	3 200	2	200	Centrifuge, "lick and blot"	HLA Fusion	50	5000	Neg MFI >500 or Pos/Neg Ratio <2
15	As per manufacturer's instruction	Manufacturer supplied	EDTA	5 200	5	200	Vacuum manifold	HLA Fusion	100	10,000	Neg >1500
19	As per manufacturer's instruction	Manufacturer supplied	EDTA	5 200	5	200	Vacuum manifold	HLA Fusion	50	5000	1000-1500
20	As per manufacturer's instruction	Manufacturer supplied	No	5 200	4	200	Vacuum manifold	HLA Fusion	50	2000	Sample NC of >500 MFI
23	As per manufacturer's instruction	Manufacturer supplied	No	2 200	2	200	LabXpress	HLA Fusion	50	500	>1500 MFI
24	As per manufacturer's instruction	Manufacturer supplied	No	OL = 5, LC = 4 3x250	OL = 5, LC = 0	200	Vacuum manifold	HLA Fusion and MatchIT	50	3000	NC >500
25	As per manufacturer's instruction	Manufacturer supplied	No	x5 220	x5	220	Vacuum manifold	HLA Fusion	50	1500 or 2x negative control	MFI for NC bead greater than 1500
26	As per manufacturer's instruction	Manufacturer supplied	No	5 200	5	200	Vacuum manifold	HLA Fusion	50	5000	NC >750
28	As per manufacturer's instruction	Manufacturer supplied	No	4 100, then 3 x 275	4	100, then 3 x 275	Vacuum manifold	Fusion	30	500	>1500 MFI Neg control
34	As per manufacturer's instruction	Manufacturer supplied	EDTA	5 200	5	200	Vacuum manifold	HLA Fusion	50	>500 + 2*NC	Negative control >500
35	As per manufacturer's instruction	Manufacturer supplied	EDTA	1 150	3	200	Centrifuge, "lick and blot"	HLA Fusion	50	500	
38	As per manufacturer's instruction (Rapid screen)	Manufacturer supplied	No	3 200	2	200	Centrifuge, "lick and blot"	HLA Fusion/MatchIT	800	1500	500
39	As per manufacturer's instruction	Manufacturer supplied	EDTA	5 200	5	200	Vacuum manifold	HLA Fusion	50	5000	Samples with an internal Negative Control >500 bead MFI are classified as having "High Background"
41	As per manufacturer's instruction	Manufacturer supplied	No	4 200	3	200	Vacuum manifold	Fusion	50	5000	1500
42	As per manufacturer's instruction	Manufacturer supplied	No	5 200	5	200	Vacuum manifold	Fusion	50	5000	NC >1500
45	As per manufacturer's instruction	Manufacturer supplied	No	4 200	4	200	Vacuum manifold	HLA Fusion and in house software	50	5000	500
48	As per manufacturer's instruction	Manufacturer supplied	No	3 250	3	150, then 2 at 250 for LabScreen only	Vacuum manifold	HLA Fusion/MatchIT	50	1000 for LabScreen Mixed beads and Single Antigen beads, 10,000 for Lifecodes C1 and 2 ID's and 2000 for Lifecodes Single Antigen beads	Sample with a negative control over 1000 for LabScreen and at the user's discretion taking into account the manufacturer's suggest ranges for Lifecodes
51	As per manufacturer's instruction	Manufacturer supplied	No	5 250	5	250	Vacuum manifold	HLA Fusion/MatchIT	50 for analysis	5000	>500
54	As per manufacturer's instruction	Manufacturer supplied	No	3 200	4	200	Centrifuge, "lick and blot"	HLA Fusion	40	1000	NC value >750
56	As per manufacturer's instruction	Manufacturer supplied	No	As per manufacturer instruction Lifecodes - 150µl Lifecodes - 250µl	As per manufacturer instruction Lifecodes - 150µl Lifecodes - 0	200	Vacuum manifold	HLA Fusion/MatchIT	40	LabScreen - >500 Lifecodes - >3500	LabScreen screen - NC raw >500 LabScreen SAB - NC raw >1500 Lifecodes screen - Pos controls (1, 2 or 3) > lot specific specified range
62	As per manufacturer's instruction	Manufacturer supplied	No	5 200	5	200	Vacuum manifold	HLA Fusion	50	500	>500
100	As per manufacturer's instruction	Manufacturer supplied	No	3 250	N/A		Vacuum manifold	MatchIT	50	2000 with control sera	MFI greater value than the range for negative control bead
101	As per manufacturer's instruction	Manufacturer supplied	No				Centrifuge, "lick and blot"	HLA Fusion	100	4000	>500
112	As per manufacturer's instruction	Manufacturer supplied	No	1 100	3	250	Centrifuge, "lick and blot", Vacuum manifold	HLA Fusion/MatchIT	60 (Immucor) 100 (One Lambda)	12,000 (Immucor) 2000 (One Lambda)	Values of negative control beads are over the acceptable range (Manufacturer). Irregular or atypical graphs or reactivity profiles in analysis software
114	As per manufacturer's instruction	Manufacturer supplied	No	3 160	2	160	Centrifuge, "lick and blot"	HLA Fusion	50	Positive control >1500	Negative control >500
116	As per manufacturer's instruction	Manufacturer supplied	No	3 200	2	200	Centrifuge, "lick and blot"	HLA Fusion	50		Negative control in LSM >800
117	As per manufacturer's instruction	Manufacturer supplied	No	3 200	3	200	Centrifuge, "lick and blot"	HLA Fusion	15	500	MFI of negative control 300-400
119	As per manufacturer's instruction	Manufacturer supplied	EDTA	3 200	3	200	Centrifuge, "lick and blot"	OLI Fusion	50	3000	Neg >500
120	As per manufacturer's instruction	Manufacturer supplied	No	3 First = 150µl Two others = 200µl	2	200µl	Centrifuge, "lick and blot"	HLA Fusion	50	4000	NC >500 MFI
133	As per manufacturer's instruction	Manufacturer supplied	No	3 250	N/A		Vacuum manifold	MatchIT	60	Screening: 10,000 Single Antigen: 2000	Screening: 1000 Single Antigen: 300
136	As per manufacturer's instruction	Manufacturer supplied	No	3 150	2	150	Centrifuge, "lick and blot"	HLA Fusion	50	MFI >1000 and 2 x negative control	MFI >500
139	As per manufacturer's instruction	Manufacturer supplied	No	5 175	5	175	Vacuum manifold	HLA Fusion	50	5000	NC >1500
142	As per manufacturer's instruction	Manufacturer supplied	No	5 175	5	175	Vacuum manifold	HLA Fusion	50	5000	NC bead >1500 MFI
143	As per manufacturer's instruction	Manufacturer supplied	No	3 150/200/200	2	200/200	Centrifuge, "lick and blot"	HLA Fusion	100	3000	Negative control >1500 MFI
145											
147	As per manufacturer's instruction	Manufacturer supplied	EDTA	4 250	4	250	Vacuum manifold	HLA Fusion	50	2000	NC bead >500
149	As per manufacturer's instruction	Manufacturer supplied	No	3 250			Vacuum manifold	MatchIT	60	2000	High MFI for Negative Control Sera (BCM >300 MFI)
157	As per manufacturer's instruction	Manufacturer supplied	No	3 200	3	200	Centrifuge, "lick and blot"	HLA Fusion	50	4000	Negative control >500
158	As per manufacturer's instruction	Manufacturer supplied	No				Vacuum manifold	Fusion	100	1500	>500
160	As per manufacturer's instruction	Manufacturer supplied	No	3 1st 150, 2nd and 3rd 200	2	200	Centrifuge, "lick and blot"	HLA Fusion	100	5000	
162	As per manufacturer's instruction	Manufacturer supplied	EDTA	3 200	2	200	Centrifuge, "lick and blot"	HLA Fusion	50	1500	NC bead >1500

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163	As per manufacturer's instruction	Manufacturer supplied	EDTA	4	175	4	175	Vacuum manifold	HLA Fusion	50	4000	500
164	As per manufacturer's instruction	Manufacturer supplied	No	5	175	5	175	Vacuum manifold	HLA Fusion	50	>500	Negative Control >1500
165	As per manufacturer's instruction	Manufacturer supplied	No	2	150	2	150	Centrifuge, "lick and blot"	Fusion	100	5000MFI	
181	Manufacturer's instruction	Manufacturer supplied	No	5	175	5	175	Vacuum manifold	Fusion	50	5000	High NC
185	Manufacturer's instruction	Manufacturer supplied	No	3	250			Vacuum manifold	MatchNT	60	Not defined. Relative to the standard PC as provided by the manufacturer	Clr manufacturer's ranges
186	Manufacturer's instruction	Manufacturer supplied	No	3	250	3	250	Vacuum manifold	MatchNT	?	10,000	NC bead
190	Manufacturer's instruction	Manufacturer supplied	EDTA	3	200	2	200	Centrifuge, flick and blot	Fusion	50	500	R-2 or NC<1500
193	Manufacturer's instruction	Manufacturer supplied	No	3	200	2	200	Centrifuge, flick and blot	Fusion	100	raw data PC>1000	raw data NC<500
194	Manufacturer's instruction	Manufacturer supplied	No					Vacuum manifold	Fusion	100		
195	Manufacturer's instruction	Manufacturer supplied	No	5	175	5	175	Vacuum manifold	Fusion	100		≥500
197	Manufacturer's instruction	Manufacturer supplied	No	4	175	4	175	Vacuum manifold	Fusion	50	Accepted with a PC>5000	High background when NC<500
206	Manufacturer's instruction	Manufacturer supplied	EDTA	5	175	5	175	Vacuum manifold	Fusion	50	3000	NC>500
208	Manufacturer's instruction	Manufacturer supplied	No	5	175	5	175	Vacuum manifold	Fusion	50	3000	Sera with NC bead MFI over 500 are adsorbed. Adsorbed sera with remaining NC bead MFI over 1500 are considered having "high background"
214	Manufacturer's instruction	Manufacturer supplied	No	3	250			Vacuum manifold	MatchNT	60	≥10,000	MFI >1000
218	Manufacturer's instruction	Manufacturer supplied	No	4	150-200			Vacuum manifold	MatchNT	100		High MFIs, non-specific binding, high adjusted ratios
227	Manufacturer's instruction	Manufacturer supplied	No	5, 3	175, 100	5	175	Vacuum manifold	Fusion, MatchNT	50	1500 raw	up to 500 raw
232	Manufacturer's instruction	Manufacturer supplied	No	4	275	4	275	Vacuum manifold	Fusion	80	5000	Kit dependent
235	Manufacturer's instruction	Manufacturer supplied	No	2	200	2	200	Centrifuge, flick and blot	Fusion	100	5000	NC>500
238	Manufacturer's instruction	Manufacturer supplied	No	4	100, 200			Vacuum manifold	MatchNT	50 if only one or two beads are	3500 but mostly >10000	NC>350
245	Manufacturer's instruction	Manufacturer supplied	No	5	175	5	175	Vacuum manifold	Fusion	50	500	NC>1500
252	Manufacturer's instruction	Manufacturer supplied	No	3	250			Vacuum manifold	MatchNT	60	10000	NC beads<600
257	Manufacturer's instruction	Manufacturer supplied	No	3	250			Vacuum manifold	MatchNT	As per manufacturer's instructions	As per manufacturer's instructions	MFI of NC beads are out of range
268	Manufacturer's instruction	Manufacturer supplied	No	4	100 (first), 250 (3 times)			Vacuum manifold	MatchNT	60	3500	Values for the negative beads outside the expected ranges (manufacturer)
273	Manufacturer's instruction	Manufacturer supplied	No	5	175	5	175	Vacuum manifold	Fusion	50	>500	>1500
277	Manufacturer's instruction	Manufacturer supplied	No	3	150, 200, 200	2	200	Centrifuge, flick and blot	Poront, Fusion	100	500, PC/NC ratio ≥2	Our criteria is the NC bead ≥1500
284	Manufacturer's instruction	Manufacturer supplied	EDTA	4	175	4	175	Vacuum manifold	Fusion	50	5000	500
292	Manufacturer's instruction	Manufacturer supplied	No	3	200	3	200	Centrifuge, flick and blot	Fusion, Pr Tatpins table	50	5000	NC>500
293	Manufacturer's instruction	Manufacturer supplied	No	3	1000	2	1000	Centrifuge, flick and blot	Fusion	100	PC beads should be higher than 500 or at least twice the NC value	High MFI value in NC bead
294	Manufacturer's instruction	Manufacturer supplied	No	3	250			Vacuum manifold	MatchNT	60	>10000 for Pos and Neg control, >3500 for patient sample	CCNS-Range
297	Manufacturer's instruction	Manufacturer supplied	No	4	175	4	175	Vacuum manifold	Fusion	50	1500	NC>500
303	Manufacturer's instruction	Manufacturer supplied	No	3	200	3	200	Centrifuge, flick and blot	Fusion	50	5000MFI	NC bead >500 MFI
309	Manufacturer's instruction	Manufacturer supplied	No	3	250			Vacuum manifold	MatchNT	60	3600 for human samples, 10,000 for control serum of the kit	when lowest reaction bead is >500MFI
311	Manufacturer's instruction	Manufacturer supplied	EDTA	5	175	5	175	Vacuum manifold	Fusion	50	4000	NC>500
315	Manufacturer's instruction	Manufacturer supplied	EDTA	5	175	5	175	Vacuum manifold	Fusion	50	2000	NC >1500 or NC >1/2 PC
323	Manufacturer's instruction	Manufacturer supplied	No	5	175			Vacuum manifold	Fusion	50	500	Neg and Pos sera MFI as they are known
351	Manufacturer's instruction	Manufacturer supplied	No	2	250			Vacuum manifold	MatchNT	100	>1500	The panel reactive antibody percentage at 100% and DSA is not specified