

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

SAMPLES 6 07-12/2018

DESPATCHED ON 04TH DECEMBER 2018

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		Dead cell visualisation	Analysis Procedures	Software Manufacturer	%PRA considered positive/performed further analysis	Comments		
					Composition	Size		Cells	Sera	Complement	DTT	Pre-C'	Post-C'							
20	NIH	B-Cells	No	Commercial	Random		Commercial					60	90	Ethidium Bromide	Computerised	In House	6%, but can vary patient dependent. 0.1			
28	Microlymphocyte cytotoxicity test NIH	T-Cells	Yes	Commercial	Selected	60	Commercial					30	60	Fluoroquencher	Manual	In House				
29		PBL	Yes	Commercial	Selected	58	Commercial					30	60	Fluoroquencher	Manual	In House				
42	NIH	PBL	No	In House	Mixture	40	Commercial					60	120	Fluoroquencher	Manual	Commercial	>10% 0.2			
120	Standard NIH	T and B-Cells	Yes		Selected	36	Commercial					25	50	Fluoroquencher	Computerised					
136	NIH	PBL	No		Random	17	In House					30	60	Ethidium Bromide						
154	NIH	T-Cells	Yes	Commercial	Mixture	30	Commercial					30	60	Eosin	Manual		Any positive results 10%. CDC is never used alone in order to define the presence or absence of antibodies, always used with Luminex 0.03			
206	NIH	PBL	Yes	In House	Selected		Cedarlane	1	1	5	1	30	90	Fluoroquencher	Manual					
227	DTT	PBL	No	In House	Random		Commercial					30	60	Fluoroquencher	Manual					
294	AHG	T-Cells	Yes	Commercial	Selected	60	Commercial					30	60	Fluoroquencher	Manual					

FLOW CYTOMETRY TECHNIQUE INFORMATION

Lab No	Flow Cytometer Model	Cell		Conjugate	Manufacturer	Conjugate	Manufacturer	Software	Manufacturer	Comments
		preparations	source							
222	BD FACS Cantoll		One Lambda	Flow PRA Anti-Human IgG-FITC	One Lambda			BD FACSDiva	BD Biosciences	

ELISA TECHNIQUE INFORMATION

Lab No	ELISA kit(s) used	Batch No.	Manufacturer	ELISA kit(s) used	Batch No.	Manufacturer	Comments

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LUMNEX 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?	Serum treatment		
				If no:	Same serum?	If no:					Dilution/Other	Criteria?	
9	Yes	Sensitised patient sera	No	Positive control sera tested once a week	Yes		Sometimes	-20	>48	EDTA	Dilution		
11	Yes	Pooled sensitised patient sera	Yes		No	Different pooled patient sera for each assay - LXS, Class I SABs and Class II SABs	Yes	-40	>48	Adsorption beads			
12	Yes	Sensitised patient sera	Yes		Yes		Yes	-20	24-48	Adsorption beads	Dilution	High background serum (NC>500), despite treatment with Adsorb out.	
14	Yes	Sensitised patient sera	Yes		No	Sensitised patient control sera for each kit chosen by Ab profile	Always	-20	>48	Heat inactivation, EDTA			
15	Yes	Pooled HSP sera	Yes		Yes		Yes	2-8	<24	EDTA			
19	Yes	Pooled multispecific patient sera	Yes		Yes		Yes	2-8	24-48				
20	Yes	Sensitised patient sera	Yes		No	Selected based on type of test used to ensure reactivity with beads within each test.	Always	-50	>48	EDTA, Adsorption beads			
23	Yes	Positive patient sera diluted 1:8	Yes		Yes		Always	-30	>48	EDTA		NC >1500	
24	No						Yes	-30	24-48	EDTA, Adsorption beads			
25	Yes	Sensitised patient sera	Yes		Yes		Yes	2-8	<24	EDTA			
26	Yes	Sensitised patient sera	Yes		No	C1q kit uses supplied manufacturers pos control	Yes	-20	>48	EDTA, Adsorption beads	Dilution	Seraclean for samples with high background. EDTA for 1:10	
28	Yes	Manufacturer	Yes		No	Kit Dependent	Sometimes	3-5	<24	N/A	Other	EDTA used for all SAB tests	
29	Yes	Sensitised patient sera	Yes		No		Sometimes	-40	24-48	EDTA			
34	Yes	Sensitised patient sera	Yes		Yes		Always	-30	24-48	EDTA			
35	Yes	Sensitised patient sera	Yes		No	LifeCodes pos control	Always	-40	24-48	EDTA			
38	Yes	Pooled sera from HSP	Yes		Yes		Always	-40	>48	EDTA, Adsorption beads			
39	Yes	Sensitised patient pool	Yes		No	No external pos run with single antigen testing	Yes	-80	>48	EDTA			
41	Yes	Sensitised patient sera	Yes		Yes		Sometimes	-40	24-48	EDTA, Adsorption beads			
42	Yes	Pooled sensitised patient sera	Yes		Yes		Always	Frozen	>48	EDTA, Adsorption beads			
45	Yes	Pooled sensitised patient sera	Yes		Yes		Always	Frozen	>48	EDTA, Adsorption beads			
48	No						Always	-20	>48	EDTA, Adsorption beads			
51	No	Pooled sensitised patient sera					Always	-15 to -20	>48	EDTA	Fetal calf serum added to 5% of total		
54	Yes	Sensitised patient sera, Manufacturer	Yes		Yes		Always	-70	>48	N/A			
58	Yes	Pooled sensitised patient sera	Yes		No		Always	-70	>48	N/A			
62	Yes	Manufacturer	Yes		No	Pos control is assay specific	Always	-20	>48	N/A			
100	Yes	Manufacturer	Yes		No		Always	-20	>48	N/A			
112	Yes	Pooled positive sera from plasma donors	Yes		No	Used only for LSM12 kits	Always	-20	24-48	EDTA, Adsorption beads		NC baseline >500 and/or PC baseline >4000	
114	Yes												
115	Yes												
117	Yes												
120	Yes	Manufacturer	Yes		Yes		Always	-20	>48	EDTA, Adsorption beads		Adsorption beads: Selected samples, Adsorb Out/SeraClean, 1/6 EDTA: All samples, sera/wash buffer, 6%, 12µL EDTA in 52µL sera/wash buffer, 15 mins incubation, not stored All samples, Adsorb Out, ratio 1/10	
127	Yes												
128	Yes												
133	Yes	Manufacturer	Yes		Yes		Always	-20	>48	EDTA, Adsorption beads			
136	Yes	Sensitised patient pool	Yes		Yes		Always	-20	>48	N/A			
142	Yes	Manufacturer	Yes		No	We do not use the same positive control for screening and specificities	Always	5	24-48	N/A			
143	No						Always	-20	>48	N/A			
149	Yes	From individuals shown to be alloimmunized to HLA antigens	Yes		Yes		Always	4	24-48	N/A	Dilution		
153	Yes	Sensitised patient sera	Yes		No	Screening = Pos Class I and II serum	Always	4	>48	N/A			
154	Yes												
159	No						Always	-30	>48	Adsorption beads			
160	No												
162	Yes	Donor sera	Yes		Yes		Always	Frozen	24-48	N/A			
169	Yes												
181	Yes	Sensitised patient sera	Yes		No	Not the same for identification (simple antigen)	Yes	-80	>48	N/A			
186	Yes												
189	Yes												
191	Yes												
194	Yes												
204	Yes						Yes	Fridge	-30	24-48	Adsorption beads	Dilution	Adsorption beads: Selected samples, SeraClean, 1/4 Dilution: All samples, as per manufacturer instructions
205	Yes						Always	-30	24-48				
206	Yes												
209	Yes	Manufacturer	Yes		Yes			Frozen	>48		Dilution	Water, 1/5 or 1/10	
212	Yes												
214	Yes												
215	Yes	Manufacturer	Yes		Yes					N/A			
217	Yes	Sensitised patient sera	Yes		Yes		Always	-22	>48	EDTA, Adsorption beads	Dilution		
222	Yes	Manufacturer	Yes		Yes		Sometimes	-40	>48	N/A			
227	Yes	Manufacturer	Yes		Yes		Sometimes	-20/-80	>48	N/A			
229	Yes	Manufacturer	Yes		Yes		Sometimes	-20	24-48	N/A			
230	Yes	Manufacturer	Yes		Yes		Sometimes	-20	>48	N/A			
231	Yes	Manufacturer	Yes		Yes								
232	Yes	Manufacturer	Yes		Yes		Always	50	>48	N/A			
239	Yes												
240	No						Always	-25	>48	N/A			
241	Yes	Manufacturer	Yes		No	We use the positive control present in the kit for each test	No		>48	N/A			
242	Yes						Sometimes	-24	24-48	EDTA	Dilution	High background	
259	Yes	Sensitised patient sera, Manufacturer	Yes		Yes	Cut offs choice	Yes	-20	>48				
268	Yes	Sensitised patients	Yes		Yes			4	24-48	N/A			
273	Yes												
284	Yes	Manufacturer	Yes		Yes		Always	-20	24-48	N/A			
292	Yes												
293	Yes												
294	Yes												
302	Yes				Yes		Sometimes	-30/-40	>48	N/A			
303	Yes												
309	Yes	Manufacturer	Yes		No		Always	4	>48	N/A			
318	Yes												
322	Yes												
345	Yes												
351	Yes												
361	Yes												
374	Yes												
396	Yes												
401	Yes												
406	Yes												

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LUMNEX TECHNIQUE INFORMATION - Ctd

Lab no.	Incubation times?		Wash step details		First wash step		Second wash step		Buffer removed by	Software	Min bead count	Data analysis		
	Manufacturers instruction	Other	Wash medium	Anything added	Washes	Volume (µl)	Washes	Volume (µl)				Min pos control bead MFI	High background criteria	
9	Yes		Supplied	No	5		5		Vacuum Manifold	Fusion	50	500	NC >500	
11	Yes		Supplied	No	3	200	2	200	Centrifuge	Fusion	50	1000	>1000	
12	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	> 500	NC >500	
14	Yes		Supplied	EDTA	3	200	2	200	Centrifuge	Fusion	50	5000	Neg MFI >500, Pos/Neg ratio <2	
15	Yes		Supplied	EDTA	5	200	5	200	Vacuum Manifold	Fusion	50	Pc/Nc >2	NC >1500	
19	Yes		Supplied	No	5	200	5	200	Vacuum Manifold	Fusion	50	3500	>1500	
20	Yes		Supplied	No	5	175	5	175	Centrifuge	Fusion	50	2000	NC >500MFI	
23	Yes		Supplied	No	3	200	2	200	LabXpress	Fusion	50	500	>1500	
24	Yes		Supplied	No	5	220	5	220	Vacuum Manifold	Fusion	50	>500	NC >500	
25	Yes		Supplied	EDTA	5	200	5	200	Vacuum Manifold	Fusion	50	5000	>750	
26	Yes		Supplied	No	4	100	4	100	Vacuum Manifold	Fusion	30	500	NC >1500	
28	Yes		Supplied	No	1	100	3	250	Vacuum Manifold	MatchIT	100	≥10000	Manufacturer	
29	Yes	Modified Halifax Assay	Supplied	EDTA	5	200	5	200	Vacuum Manifold	Fusion	50	3000	NC >500	
34	Yes		Supplied	EDTA	3	200	2	200	Centrifuge	Fusion	50	500	Adsorb out	
35	Yes		Supplied	No	3	200	2	200	Centrifuge	Fusion	50	5000	NC >500	
38	Yes		Supplied	EDTA	5	200	5	200	Vacuum Manifold	Fusion	50	1500	>500	
39	Yes		Supplied	No	4	200	3	200	LabXpress	Fusion	50	5000	NC >500	
41	Yes		Supplied	No	3	200	3	200	Vacuum Manifold	Fusion	50	5000	NC >1500	
42	Yes		Supplied	No	4	200	4	200	Vacuum Manifold	Fusion and IH	50	5000	>500	
45	Yes			Supplied	No	3	200	4	200	Vacuum Manifold	Fusion	40	1500	NC >500MFI
48	Yes			Supplied	No	3	200	4	200	Centrifuge	Fusion	40	Kit Dependent	Kit Dependent
51	Yes			Supplied	No	Kit Dependent	Kit Dependent	Kit Dependent	Kit Dependent	Vacuum Manifold	Fusion	40	Kit Dependent	Kit Dependent
54	Yes		Supplied	No	5	200	5	200	Vacuum Manifold	Fusion	50	500	>500	
58	Yes		Supplied	No	3	250			Vacuum Manifold	MatchIT	50	10000MFI control serum	3 control beads above normal range	
62	Yes		Supplied	No	3	150	2	200	Centrifuge	Fusion	50	4000	NC >500MFI	
100	Yes		Supplied	No	3	150	2	200	Centrifuge	Fusion	50	4000	NC >500MFI	
112	Yes		Supplied	No	3	100	3	250	Vacuum Manifold	MatchIT	60	10000	>1000	
114	Yes		Supplied	No	3	100	3	250	Vacuum Manifold	MatchIT	60	10000	>1000	
115	Yes		Supplied	No	3	100	3	250	Vacuum Manifold	MatchIT	60	10000	>1000	
117	Yes		Supplied	No	3	100	3	250	Vacuum Manifold	MatchIT	60	10000	>1000	
120	Yes		Supplied	No	3	150	2	200	Centrifuge	Fusion	50	4000	NC >500MFI	
127	Yes		Supplied	No	3	150	2	200	Centrifuge	Fusion	50	4000	NC >500MFI	
128	Yes		Supplied	No	3	150	2	200	Centrifuge	Fusion	50	4000	NC >500MFI	
133	Yes		Supplied	No	3	150	2	200	Centrifuge	Fusion	50	4000	NC >500MFI	
136	Yes		Supplied	No	3	150	2	150	Centrifuge	Fusion	50	MFI >1000	MFI >500	
142	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	500	1500	
143	Yes		Supplied	No	3	150	2	200	Centrifuge	Fusion	100	3000	NC >1500MFI	
149	Yes		Supplied	No	1	100	3	250	Vacuum Manifold	MatchIT	60	10000	High con 1	
153	Yes		Supplied	No	5	175	6	175	Vacuum Manifold	Fusion	50	1500	NC >500MFI	
154	Yes		Supplied	No	5	175	6	175	Vacuum Manifold	Fusion	50	1500	NC >500MFI	
159	Yes		Supplied	No	3	150	2	200	Centrifuge	Fusion	100	5000	NC >500 MFI	
160	Yes		Supplied	No	3	150	2	200	Centrifuge	Fusion	100	5000	NC >500 MFI	
162	Yes		Supplied	No	3	150	2	200	Centrifuge	Fusion	100	5000	NC >500 MFI	
169	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	5000	NC <500	
181	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	5000	NC <500	
186	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	5000	NC <500	
189	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	5000	NC <500	
191	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	5000	NC <500	
194	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	5000	NC <500	
195	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	100		MFI ≥500	
204	Yes		Supplied	No	1	150		1x100, 3x250	Vacuum Manifold	MatchIT	100	3500, 10000 for pos control sera as recommended by manufacturer	Defined by manufacturer	
205	Yes		Supplied	No	1	100	3	250	Vacuum Manifold	MatchIT	100	3500, 10000 for pos control sera as recommended by manufacturer	Defined by manufacturer	
206	Yes		Supplied	No	1	100	3	250	Vacuum Manifold	MatchIT	100	3500, 10000 for pos control sera as recommended by manufacturer	Defined by manufacturer	
209	Yes		Supplied	No	3	250				MatchIT	60	10000	>1000	
212	Yes		Supplied	No	3	250				MatchIT	60	10000	>1000	
214	Yes		Supplied	No	3	250				MatchIT	60	10000	>1000	
215	Yes		Supplied	No	3	250				MatchIT	60	10000	>1000	
217	Yes		Supplied	No	3	250				MatchIT	60	10000	>1000	
222	Yes		Supplied	No	1	100	3	250	Vacuum Manifold	MatchIT	50	3500	NC > 500	
227	Yes		Supplied	EDTA	5	175	5	175	Vacuum Manifold	Fusion	50	1000	NC > 500	
229	Yes		Supplied	No	1/3	150/250	3	250	Vacuum Manifold	MatchIT	>300	>10000	If CON value too high	
230	Yes		Supplied	No	3	250	3	250	Vacuum Manifold	MatchIT	100	10000	Manufacturer	
231	Yes		Supplied	No	1	100	3	250	Vacuum Manifold	Luminex	100	10000	Manufacturer	
232	Yes		Supplied	No	4	250			Vacuum Manifold	MatchIT	80	5000	Negative control beads should be within the determined value	
233	Yes		Supplied	No	4	250			Vacuum Manifold	MatchIT	80	5000	Internal control values	
240	Yes		Supplied	Wash buffer	1	100	3	750	Vacuum Manifold	MatchIT	100	1500		
241	Yes		Supplied	No	4	100	3	750	Vacuum Manifold	MatchIT	100	1500		
242	Yes		Supplied	No	4	100	3	750	Vacuum Manifold	MatchIT	100	1500		
252	Yes		Supplied	No	4	100	3	750	Vacuum Manifold	MatchIT	100	1500		
259	Yes		Supplied	No	1	150	3	250	Vacuum Manifold	MatchIT	60	≥10000	>1000	
268	Yes		Supplied	EDTA	5	175	5	175	Vacuum Manifold	Fusion	50	>500 or 2x NC	NC >500 or > all beads for same sample	
273	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	>500	NC >500	
284	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	>500	NC >500	
292	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	>500	NC >500	
293	Yes		Supplied	No	5	175	5	175	Vacuum Manifold	Fusion	50	>500	NC >500	
294	Yes		Supplied	No	1	100	3	250	Vacuum Manifold	MatchIT	60	>10000 PC and NC, >3500 sample patient 10000	Con >range	
302	Yes		Supplied	No	2	150	2	250	Vacuum Manifold	MatchIT	100			
303	Yes		Supplied	No	2	150	2	250	Vacuum Manifold	MatchIT	100			
309	Yes		Supplied	No	3				Vacuum Manifold	MatchIT	60	3500	NC above range of kit	
318	Yes		Supplied	No	3				Vacuum Manifold	MatchIT	60	3500	NC above range of kit	
322	Yes		Supplied	No	3				Vacuum Manifold	MatchIT	60	3500	NC above range of kit	
345	Yes		Supplied	No	3				Vacuum Manifold	MatchIT	60	3500	NC above range of kit	
351	Yes		Supplied	No	3				Vacuum Manifold	MatchIT	60	3500	NC above range of kit	
361	Yes		Supplied	No	3				Vacuum Manifold	MatchIT	60	3500	NC above range of kit	
374	Yes		Supplied	No	3				Vacuum Manifold	MatchIT	60	3500	NC above range of kit	
396	Yes		Supplied	No	3				Vacuum Manifold	MatchIT	60	3500	NC above range of kit	
401	Yes		Supplied	No	3				Vacuum Manifold	MatchIT	60	3500	NC above range of kit	
406	Yes		Supplied	No	3				Vacuum Manifold	MatchIT	60	3500	NC above range of kit	

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SAMPLES 6 07-09/2018

DESPATCHED ON 04TH DECEMBER 2018

Lab	607/2018				608/2018				609/2018			
	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
9	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	Positive	LUMINEX
38	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX
42	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
120	Negative	CDC	Negative	CDC	Negative	CDC	Negative	CDC	Positive	CDC	Positive	CDC
154	Negative	CDC	NT		Negative	CDC	NT		Positive	CDC	NT	
159	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
162	Positive	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Positive	LUMINEX
194	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
206	Negative	CDC	NT		Negative	CDC	NT		Positive	CDC	NT	
268	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
284	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
294	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
374	Positive	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	Positive	LUMINEX	Positive	LUMINEX

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

SAMPLES 6 10-12/2018

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Lab	610/2018				611/2018				612/2018			
	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
9	Positive	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Negative	LUMINEX
38	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX
42	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
120	Negative	CDC	Positive	CDC	Negative	CDC	Negative	CDC	Negative	CDC	Negative	CDC
154	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
159	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
162	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX	Negative	LUMINEX
194	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
206	Positive	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
268	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
284	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
294	Negative	CDC	NT		Negative	CDC	NT		Negative	CDC	NT	
374	Positive	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Negative	LUMINEX

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IgM Results - Additional Information

Lab No.	Methods used to test these samples:						Have the samples been treated?						Please list any samples that gave 'high background' in the Luminex assay(s):	Please give further details (e.g. was the high background removed by Adsorb Out treatment etc.)
	CDC	Flow	ELISA	Luminex	Other	Apply to all	None	Dilution	Heat Inactivation	EDTA	Other	Apply to all		
9				Mixed/Multi		Yes	None					Yes		
38				Mixed/Multi		Yes			EDTA			Yes		
42	CDC					Yes	None					Yes		
154	CDC					Yes	None					Yes		
159	CDC					Yes	None					Yes	NA	
162				Mixed/Multi		Yes			EDTA			Yes	6 08/2018	High background removed by Adsorb Out treatment
194	CDC					Yes				DTT		Yes		
206	CDC					Yes	None					Yes		
268	CDC					Yes				DTT		Yes		
284	CDC					Yes				DTT		Yes		
294	CDC					Yes								
374				Mixed/Multi		Yes				Adsorb Out/ SeraClean Beads		No	607	By serum cleaner

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Additional CDC results (Not assessed)

Lab No.	Panel size			607/2018 %PRA			608/2018 %PRA			609/2018 %PRA			610/2018 %PRA			611/2018 %PRA			612/2018 %PRA		
	T-cell	B-cell	PBL	T-cell	B-cell	PBL	T-cell	B-cell	PBL	T-cell	B-cell	PBL	T-cell	B-cell	PBL	T-cell	B-cell	PBL	T-cell	B-cell	PBL
20	NT	40	NT	NT	0	NT	NT	0	NT	NT	36	NT	NT	26	NT	NT	0	NT	NT	0	NT
120	35	35		0	0		0	0		28	40		0	33		0	0		0	0	
154	30	NT	NT	0	NT	NT	0	NT	NT	50	NT	NT	0	NT	NT	0	NT	NT	0	NT	NT
159			30			0			0			33			0			0			0
194			40			0			0			45			0			0			0
206				NT	NT	0	NT	NT	0	NT	NT	70	NT	NT	10	NT	NT	0	NT	NT	0
209	30			0			0			33			6			0			0		
227			30			0			0			30			0			0			0
268	60	NONE	NONE	0	NT	NT	0	NT	NT	23	NT	NT	0	NT	NT	0	NT	NT	0	NT	NT
284	NT	NT	30	NT	NT	0	NT	NT	0	NT	NT	0.16	NT	NT	0	NT	NT	0	NT	NT	0
294	0	NT	NT	0	NT	NT	38	NT	NT	0	NT	NT	0	NT	NT	0	NT	NT	0	NT	NT