

**UK NEQAS for H&I Scheme 2B - Crossmatching by Flow Cytometry**

2B03/2019 PC				
T-cells	Serum 1	Serum 2	Serum 3	Serum 4
Total distributed	35	35	35	35
Total submitted	35	35	35	35
Not Tested	4	4	4	4
Positive	31	31	2	3
Negative	-	-	28	28
Equivocal	-	-	1	-
% Positive	100	100	6.5	9.7
% Negative	-	-	90.3	90.3
% Equivocal	-	-	3.2	-
<b>Consensus</b>	<b>Positive</b>	<b>Positive</b>	<b>Negative</b>	<b>Negative</b>
Unacceptable	-	-	Equivocal	Positive
Number acceptable	31	31	28	28
Number unacceptable	0	0	3	3
Assessed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

  

Lab	Cytometer Reading				Cell viability	Units for cytometer readings	T-cell local neg control	T-cell local pos control	T-cell pos result value				
	Serum 1	Serum 2	Serum 3	Serum 4									
115	Positive	Positive	Negative	Negative	581	579	400	428	0	median linear channel shift	438	486	>40 linear channel shift
117	Positive	Positive	Negative	Negative	18.72	19.14	5.01	5.38	90	Median Log Channel	4.27	35.27	Ratio (RMF) >1.3
118	Not Tested	Not Tested	Not Tested	Not Tested					0				
120	Positive	Positive	Negative	Negative	8.63	5.9	1.25	1.3	100	Median	88.5	3822.5	ratio > 1.6
122	Positive	Positive	Negative	Negative	65	61.5	6	8	98	Geo mean liner value	7	124	3SD
126	Positive	Positive	Negative	Negative	238	244	0	0	90	Median Linear Fluorescence	310	1022	>55 linear channel shift
130	Positive	Positive	Negative	Negative	342	352	154	168	95	Mean channel swift	157	212	>40
133	Positive	Positive	Negative	Negative	8	13.6	0.1	0.2	99	MFI(median)	0.1	211	2SD
138	Positive	Positive	Negative	Negative	0.58	0.5	0.03	0.02	0		0	0.91	0.2
139	Positive	Positive	Negative	Negative	7.28	6.13	0.561	0.653	90	MFI	0.3625	25.9	1.5 * T-cell local negative control
143	Positive	Positive	Negative	Positive	653	1035	4	92	87.7	26.4 x 10 <sup>6</sup> cells/mL	53	4308	Test sample is more than 4,000 median channel shift; or ratio between test sample and negative control is more than 2.5
144	Positive	Positive	Negative	Negative	5.76	5.09	1.07	1.05	0	Medianâ†Ratio	1153	5.34	1.6
145	Positive	Positive	Negative	Negative	1.69	2.12	0.288	0.301	95	median fluorescence intensity	0.391	44.4	mean (ratio med fluorscence test/med fluor neg) +2SD
147	Positive	Positive	Negative	Negative	394	379	156.5	133.5	100	linear channel	134.5	667	> 40 linear channel shift
149	Positive	Positive	Negative	Negative	0.708	0.848	0.26	0.288	82	MEDIAN LOG CHANNEL	0.33	71.5	2SD
154	Positive	Positive	Negative	Negative	1260	1159	119	162	0	Median Fluorescence Intensity	109	2227	>150% of the negative control and shape of the cytogram
157	Positive	Positive	Negative	Negative	402	422	160	149	97	median log channel	142	2733	2sd (+27)
159	Positive	Positive	Negative	Negative	477	470	194	218	0	linear channel	193	471	233 MLS (40 linear channel shift)
160	Positive	Positive	Negative	Negative	93.5	86.6	9.5	13.4	0	MEAN LINEAR CHANNEL	7.9	166	>15.1 (NEGATIVE+2SD)
167	Positive	Positive	Negative	Positive	1378	2118	279	341	98	Median log channel	246	11719	2SD
169	Positive	Positive	Negative	Negative	264	289	193	195	97	MEDIAN CHANNEL	195	372	>=50 CHANNEL
190	Positive	Positive	Negative	Negative	341	304	49	55	87	MFI	42	100	Ratio Sera/Negative control > 1.45
191	Positive	Positive	Equivocal	Negative	289	196	33	7.4	90	mfi	0	130	>30 mfi
195	Positive	Positive	Negative	Negative	674	810	401	408	90	Median log channel	422	2304	Test / Negative control >= 1,30
201	Positive	Positive	Negative	Negative	6.06	5.16	1.17	1.13	97	mean	0,525	20,4	higher than 2
218	Not Tested	Not Tested	Not Tested	Not Tested					11	MFI			
235	Positive	Positive	Negative	Negative	1,06	1,32	0,44	0,37	85	median log channel	0,35	8,95	0.05 above than the negative control value
240	Positive	Positive	Positive	Negative	61	71	33	28	50	MFI	24	857	N.C*1,2
246	Not Tested	Not Tested	Not Tested	Not Tested					0				
252	Positive	Positive	Negative	Negative	6.26 MCR	2.57 MCR	0.46 MCR	0.92 MCR	70		296	4858	Median Ratio +/- 2SD
260	Positive	Positive	Negative	Negative	78.03%	87.94%	%7.44	7.74%	80		9.01%	98.77%	>%25
276	Positive	Positive	Negative	Negative	1164	1356	198	250	91	Median Fluorescence Intensity	349	7785	>1.5x neg control
293	Positive	Positive	Negative	Negative	20.17	21.67	6.85	7.99	85	channel shifts	8.36	124.5	10 channel shift
351	Not Tested	Not Tested	Not Tested	Not Tested									
1353	Positive	Positive	Positive	Positive	308	412	24	100	71	Median Chanel Shift	236	502	2SD-3SD weak positive, > 3SD positive

**UK NEQAS for H&I Scheme 2B - Crossmatching by Flow Cytometry**

Lab Comments	Received	Tested	Assessment
115	26/06/2019	27/06/2019	100%
117	27/06/2019	27/06/2019	100%
118 The samples could not be tested due to delayed delivery and very hot temperature.	27/06/2019	0000-00-00	Not assessed
120	26/06/2019	27/06/2019	100%
122	26/06/2019	27/06/2019	100%
126 Cells were aggregated/clumped.	26/06/2019	27/06/2019	100%
130	26/06/2019	27/06/2019	100%
133	28/06/2019	28/06/2019	100%
138	26/06/2019	27/06/2019	100%
139	28/06/2019	28/06/2019	100%
143 B cell flow cytometry crossmatch is not offered by our laboratory. However, we do perform Luminex SAB Class I and II as diagnostic services for comprehensive HLA testing.	01/07/2019	02/07/2019	75%
144	26/06/2019	27/06/2019	100%
145	26/06/2019	26/07/2019	100%
147 We have received very weak cells and in this sample, we have observed the presence of aggregates.	26/06/2019	26/06/2019	100%
149	26/06/2019	27/06/2019	100%
154	28/06/2019	28/06/2019	100%
157	26/06/2019	26/06/2019	100%
159	27/06/2019	27/06/2019	100%
160	26/06/2019	27/06/2019	100%
167	26/06/2019	27/06/2019	75%
169	26/07/2019	27/06/2019	100%
190	26/06/2019	27/06/2019	100%
191	27/06/2019	27/06/2019	75%
195	28/06/2019	28/06/2019	100%
201	26/06/2019	27/06/2019	100%
218 There was virtually no viable cells present in the sample	03/07/2019	0000-00-00	Not assessed
235	26/06/2019	26/06/2019	100%
240	01/07/2019	01/07/2019	75%
246 The delivery of the samples was too late. They arrived in the very late evening (26.06.2019, 4:20 pm). Due to this we had a storage problem. That is why we have chosen not to participate.	0000-00-00	0000-00-00	Not assessed
252	21/06/2019	21/06/2019	100%
260	28/06/2019	28/06/2019	100%
276	26/06/2019	27/06/2019	100%
293	27/06/2019	27/06/2019	100%
351 Cell count too low	0000-00-00	0000-00-00	Not assessed
1353	30/06/2019	01/07/2019	50%

**UK NEQAS for H&I Scheme 2B - Crossmatching by Flow Cytometry**

2B03/2019 PC				
B-cells	Serum 1	Serum 2	Serum 3	Serum 4
Total distributed	31	31	31	31
Total submitted	31	31	31	31
Not Tested	3	3	3	3
Positive	28	28	1	1
Negative	-	-	27	27
% Positive	100	100	3.6	3.6
% Negative	-	-	96.4	96.4
<b>Consensus</b>	<b>Positive</b>	<b>Positive</b>	<b>Negative</b>	<b>Negative</b>
Unacceptable	-	-	Positive	Positive
Number acceptable	28	28	27	27
Number unacceptable	2	2	3	3
Assessed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Lab	Cytometer Reading				Serum 1	Serum 2	Serum 3	Serum 4	Cell viability	Units for cytometer readings	B-cell local neg control	B-cell local pos control	B-cell pos result value
	Serum 1	Serum 2	Serum 3	Serum 4									
115	Positive	Positive	Negative	Negative	894	658	452	512	0	median linear channel shift	505	755	>60 linear channel shift
117	Positive	Positive	Negative	Negative	77.84	42.8	10.2	11.52	90	Median Log Channel	11.02	78.19	Ratio (RMF) >1.5
118									0				
120	Positive	Positive	Negative	Negative	38.02	3.27	1.09	1.22	100	Median	544.5	9036.5	ratio > 2
122	Positive	Positive	Negative	Negative	1188.5	157.5	31	53.5	98	Geo mean liner value	48.5	466	3SD
126	Positive	Positive	Negative	Negative	403	173	0	0	90	Median Linear Fluorescence	504	957	>80 linear channel shift
130	Positive	Positive	Negative	Negative	539	432	355	312	95	Mean channel swift	295	372	>80
133	Positive	Positive	Negative	Negative	163	19.6	1.9	2.2	99	MFI(median)	5	285	2SD
138									0				
139	Positive	Positive	Negative	Negative	158	34.8	16.5	19	90	MFI	7.535	176	2 * B-cell negative control
143					NT	NT	NT	NT	87.7	26.4 x 10^6 cells/mL	NT	NT	NT
144	Positive	Positive	Negative	Negative	28.96	5.83	1.16	1.29	0	Medianâ†Ratio	2375	8.45	2.5
145	Positive	Positive	Negative	Negative	24.7	5.36	0.944	0.871	95	median fluorescence intensity	0.936	44.9	mean (ratio med fluorescence test/med fluor neg) +2SD
147	Positive	Positive	Negative	Negative	723	450.5	287.5	280	100	linear channel	272.5	450.5	> 60 linear channel shift
149	Positive	Positive	Negative	Negative	13.1	2.83	0.423	0.477	82	MEDIAN LOG CHANNEL	1.43	54.6	2SD
154	Positive	Positive	Negative	Negative	26506	2101	341	626	0	Median Fluorescence Intensity	302	9894	>250% of the negative control and shape of the curve
157	Positive	Positive	Negative	Negative	4422	479	213	195	97	median log channel	228	5611	2sd (+60)
159	Positive	Positive	Negative	Negative	791	570	399	415	0	linear channel	414	668	514 MLS (100 mean linear channel shift)
160	Positive	Positive	Negative	Negative	3474	337	85.5	161	0	MEAN LINEAR CHANNEL	69.9	525	2SD
167	Positive	Positive	Negative	Negative	29617	4579	1227	1362	98	Median log channel	1142	53519	2SD
169	Positive	Positive	Negative	Negative	542	349	255	253	97	MEDIAN CHANNEL	246	668	>=80 CHANNEL
190	Positive	Positive	Negative	Negative	1000	675	153	181	87	MFI	120	1000	Ratio Sera/Negative control > 2.69
191	Positive	Positive	Negative	Negative	413	110	26	-8.5	90	mfi	0	256	>100
195	Positive	Positive	Negative	Negative	7166	1409	580	609	90	Median log channel	757	5308	Test / Negative control >= 1,60
201	Positive	Positive	Negative	Negative	11,51	2,86	1,0	1,05	97	mean	3.32	113	higher than 2,5
218	Not Tested	Not Tested	Not Tested	Not Tested					11	MFI			
235	Positive	Positive	Negative	Negative	19	2,96	0,86	0,91	85	median log channel	0,76	17,4	0.15 above than the negative control value
240									50	MFI			
246	Not Tested	Not Tested	Not Tested	Not Tested					0				
252	Positive	Positive	Negative	Negative	44.5 MCR	2.78 MCR	0.81 MCR	1.22 MCR	70		1271	7918	Median Ratio +/- 2SD
260	Positive	Positive	Negative	Negative	97.66%	44.44%	14.02%	10.00%	80		21.99%	97.97%	>=25
276	Positive	Positive	Negative	Negative	29126	3147	744	951	91	Median Fluorescence Intensity	1184	36072	>1,5x negative control
293	Positive	Positive	Negative	Negative	23.29	26.6	4.66	5.45	85	channel shifts	6.11	172.5	20 channel shift
351	Not Tested	Not Tested	Not Tested	Not Tested									
1353	Positive	Positive	Positive	Positive	592	442	32	165	71	Median Chanel Shift	261	726	2SD-3SD weak positive, > 3SD positive

**UK NEQAS for H&I Scheme 2B - Crossmatching by Flow Cytometry**

Lab Comments	Received	Tested	Assessment
115	26/06/2019	27/06/2019	100%
117	27/06/2019	27/06/2019	100%
118 The samples could not be tested due to delayed delivery and very hot temperature.	27/06/2019	0000-00-00	Not assessed
120	26/06/2019	27/06/2019	100%
122	26/06/2019	27/06/2019	100%
126 Cells were aggregated/clumped.	26/06/2019	27/06/2019	100%
130	26/06/2019	27/06/2019	100%
133	28/06/2019	28/06/2019	100%
138	26/06/2019	27/06/2019	Not assessed
139	28/06/2019	28/06/2019	100%
143 B cell flow cytometry crossmatch is not offered by our laboratory. However, we do perform Luminex SAB Class I and II as diagnostic services for comprehensive HLA testing.	01/07/2019	02/07/2019	Not assessed
144	26/06/2019	27/06/2019	100%
145	26/06/2019	26/07/2019	100%
147 We have received very weak cells and in this sample, we have observed the presence of aggregates.	26/06/2019	26/06/2019	100%
149	26/06/2019	27/06/2019	100%
154	28/06/2019	28/06/2019	100%
157	26/06/2019	26/06/2019	100%
159	27/06/2019	27/06/2019	100%
160	26/06/2019	27/06/2019	100%
167	26/06/2019	27/06/2019	100%
169	26/07/2019	27/06/2019	100%
190	26/06/2019	27/06/2019	100%
191	27/06/2019	27/06/2019	100%
195	28/06/2019	28/06/2019	100%
201	26/06/2019	27/06/2019	100%
218 There was virtually no viable cells present in the sample	03/07/2019	0000-00-00	Not assessed
235	26/06/2019	26/06/2019	100%
240	01/07/2019	01/07/2019	Not assessed
246 The delivery of the samples was too late. They arrived in the very late evening (26.06.2019, 4:20 pm). Due to this we had a storage problem. That is why we have chosen not to participate.	0000-00-00	0000-00-00	Not assessed
252	21/06/2019	21/06/2019	100%
260	28/06/2019	28/06/2019	100%
276	26/06/2019	27/06/2019	100%
293	27/06/2019	27/06/2019	100%
351 Cell count too low	0000-00-00	0000-00-00	Not assessed
1353	30/06/2019	01/07/2019	50%

**UK NEQAS for H&I Scheme 2B - Crossmatching by Flow Cytometry**

2B04/2019 PC				
T-cells	Serum 1	Serum 2	Serum 3	Serum 4
Total distributed	35	35	35	35
Total submitted	35	35	35	35
Not Tested	3	3	3	5
Negative	31	1	-	20
Equivocal	1	-	-	1
Positive	-	31	32	9
% Negative	96.9	3.1	-	66.7
% Equivocal	3.1	-	-	3.3
% Positive	-	96.9	100	30
<b>Consensus</b>	<b>Negative</b>	<b>Positive</b>	<b>Positive</b>	<b>-</b>
Unacceptable	Equivocal	Negative	-	-
Number acceptable	31	31	32	-
Number unacceptable	1	1	0	-
Assessed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Lab	Serum 1	Serum 2	Serum 3	Serum 4	Cytometer Reading				Cell viability	Units for cytometer readings	T-cell local neg control	T-cell local pos control	T-cell pos result value
					Serum 1	Serum 2	Serum 3	Serum 4					
115	Negative	Positive	Positive	Negative	383	578	615	405	0	median linear channel shift	424	518	>40 linear channel shift
117	Negative	Positive	Positive	Positive	4.53	10.2	40.11	8.23	90	Median Log Channel	4	78.7	Ratio (RMF) >1.3
118	Not Tested	Not Tested	Not Tested	Not Tested					0				
120	Negative	Positive	Positive	Not Tested	1.35	5.09	11.02		100	Median	76	3614	ratio > 1.6
122	Negative	Positive	Positive	Negative	6	50.5	90.5	6.5	98	Geo mean liner value	7	67	3SD
126	Negative	Positive	Positive	Negative	0	229	286	53	90	Median Linear Fluorescence	318	1022	>55 linear channel shift
130	Negative	Positive	Positive	Negative	147	252	386	164	95	Mean channel swift	161	256	>40
133	Negative	Positive	Positive	Negative	0.1	8.5	5.5	0.5	80	MFI(median)	0.1	61.8	2SD
138	Negative	Positive	Positive	Negative	0.03	0.42	0.7	0.08	0		0	0.91	0.2
139	Negative	Positive	Positive	Negative	0.432	2.56	7.08	0.653	90	MFI	0.3465	4.52	1.5 * T-cell local negative control
143	Negative	Positive	Positive	Positive	6	579	799	115	88.7	25.2 x 10 <sup>6</sup> cells/mL	55	24	Test sample is more than 4000 median channel shift; or ratio between test sample and negative control is more than 2.5
144	Negative	Positive	Positive	Negative	1.16	4.44	8.19	1.5	0	Median $\alpha$ T Ratio	1100	6.96	1.6
145	Negative	Positive	Positive	Negative	0.293	1.39	2.83	0.283	93	median fluorescence intensity	0.293	37.1	mean (ratio med fluorescence test/med fluor neg) +2SD
147	Equivocal	Positive	Positive	Positive	181.5	367.5	465.5	217.5	100	linear channel	133.5	700	> 40 linear channel shift
149	Negative	Positive	Positive	Negative	0.265	0.592	0.841	0.286	86	MEDIAN LOG CHANNEL	0.32	76.8	2SD
154	Negative	Positive	Positive	Positive	89	370	1421	218	0	Median Fluorescence Intensity	81	830	>150% of the negative control and shape of the cytogram
157	Negative	Positive	Positive	Equivocal	189	539	1232	252	97	median log channel	178	7427	2sd (+27)
159	Negative	Positive	Positive	Positive	166	382	421	233	0	Mean linear channel shift	159	416	199 MLCS (40 mean linear channel shift)
160	Negative	Positive	Positive	Negative	6	66.2	85.4	17.1	0	MEAN LINEAR CHANNEL	8.9	202.2	>18.4 (NEGATIVE + 2SD)
167	Negative	Positive	Positive	Positive	262	1083	1216	389	96	Median log channel	206	14895	2SD
169	Negative	Positive	Positive	Not Tested	186	258	305		95	MEDIAN CHANNEL	193	254	>=50 CHANNEL
190	Negative	Positive	Positive	Positive	46	274	455	89	90	MFI	40	223	Ratio Sera/Negative control > 1.45
191	Negative	Positive	Positive	Negative	15	178	359	25	85	mfi	0	264	>30 mfi
195	Negative	Positive	Positive	Negative	377	680	607	431	90	Median log channel	410	680	Test / Negative control >= 1,30
201	Negative	Positive	Positive	Negative	1,06	5,19	10,69	1,55	97	mean	0,495	21	higher than 2
218	Negative	Positive	Positive	Negative	74.7	95	122	78.8	62	MFI	79.4	815	1.2 geometric mean
235	Negative	Positive	Positive	Negative	0,32	0,49	0,86	0,28	85	median log channel	0,28	3,54	0.05 above than the negative control value
240	Negative	Positive	Positive	Positive	17	53	66	31	60	mfi	17	935	N.C*1,2
246	Not Tested	Not Tested	Not Tested	Not Tested					0				
252	Negative	Negative	Positive	Negative	1.21	1.37	16.2	5.65	60		138	28750	median ratio +/- 2SD
260	Negative	Positive	Positive	Negative	10.11%	91.61%	96.10%	25.00%	80		8.95%	99.93%	>%25
276	Negative	Positive	Positive	Negative	196	1602	2092	433	95	Median Fluorescence Intensity	495	5470	>1,5x negative control
293	Negative	Positive	Positive	Negative	6.73	15.5	28.13	7.5	85	channel shift	8	159	10 channel shift
351	Not Tested	Not Tested	Not Tested	Not Tested									
1353	Negative	Positive	Positive	Positive	2	372	343	244	87	Median Chanel Shift	240	671	2SD-3SD weak positive, > 3SD positive

**UK NEQAS for H&I Scheme 2B - Crossmatching by Flow Cytometry**

Lab Comments	Received	Tested	Assessment
115	26/06/2019	27/06/2019	100%
117	27/06/2019	27/06/2019	100%
118 The samples could not be tested due to delayed delivery and very hot temperature.	27/06/2019	0000-00-00	Not assessed
120 Serum 4 gave incoherent results on B cells regarding results found: positive cross match on T cells and equivocal cross match on B cells (1 duplicate was found positive, 1 duplicate was found negative) and there was not enough cells to repeat the test	26/06/2019	27/06/2019	100%
122	26/06/2019	27/06/2019	100%
126 Cells were aggregated/clumped.	26/06/2019	27/06/2019	100%
130	26/06/2019	27/06/2019	100%
133 For serum 2 the titer of the ab expected to be low (negative result with 1/2 dilution)	28/06/2019	28/06/2019	100%
138	26/06/2019	27/06/2019	100%
139	28/06/2019	28/06/2019	100%
143 B cell flow cytometry crossmatch is not offered by our laboratory. However, we do perform Luminex SAB Class I and II as diagnostic services for comprehensive HLA testing.	01/07/2019	02/07/2019	100%
144	26/06/2019	27/06/2019	100%
145	26/06/2019	28/06/2019	100%
147 We have received very weak cells and in this sample, we have observed the presence of aggregates.	26/06/2019	26/06/2019	66.70%
149	26/06/2019	27/06/2019	100%
154	28/06/2019	28/06/2019	100%
157 serum 04 gave T positive, B negative result	26/06/2019	26/06/2019	100%
159	27/06/2019	27/06/2019	100%
160	26/06/2019	27/06/2019	100%
167	26/06/2019	27/06/2019	100%
169 INSUFICIENT NUMBER CELLS	26/06/2019	27/06/2019	100%
190	26/06/2019	27/06/2019	100%
191	27/06/2019	27/07/2019	100%
195	28/06/2019	28/06/2019	100%
201	26/06/2019	27/06/2019	100%
218	03/07/2019	03/07/2019	100%
235	26/06/2019	26/06/2019	100%
240	01/07/2019	01/07/2019	100%
246 As already mentioned the delivery of the samples was too late. They arrive in the very late evening (26.06.2019, 4:20 pm). Due to this we had a storage problem. That is why we have chosen not to participate.	0000-00-00	0000-00-00	Not assessed
252	21/06/2019	21/06/2019	66.70%
260	28/06/2019	28/06/2019	100%
276	26/06/2019	28/06/2019	100%
293	27/06/2019	27/06/2019	100%
351 Cell count too low	0000-00-00	0000-00-00	Not assessed
1353 Due to failure in B cell Negative and positive control	30/06/2019	01/07/2019	100%

**UK NEQAS for H&I Scheme 2B - Crossmatching by Flow Cytometry**

2B04/2019 PC				
B-cells	Serum 1	Serum 2	Serum 3	Serum 4
Total distributed	31	31	31	31
Total submitted	31	31	31	31
Not Tested	3	3	3	5
Negative	28	4	1	19
Positive	-	23	27	6
Equivocal	-	1	-	1
% Negative	100	14.3	3.6	73.1
% Positive	-	82.1	96.4	23.1
% Equivocal	-	3.6	-	3.8
<b>Consensus</b>	<b>Negative</b>	<b>Positive</b>	<b>Positive</b>	<b>-</b>
Unacceptable	-	Negative	Negative	-
		Equivocal		
Number acceptable	28	23	27	-
Number unacceptable	2	7	3	-
Assessed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Lab	Serum 1	Serum 2	Serum 3	Serum 4	Cytometer Reading				Cell viability	Units for cytometer readings	B-cell local neg control	B-cell local pos control	B-cell pos result value
					Serum 1	Serum 2	Serum 3	Serum 4					
115	Negative	Positive	Positive	Negative	521	649	733	536	0	median linear channel shift	552	727	>60 linear channel shift
117	Negative	Positive	Positive	Positive	8.5	35.13	143.2	38.45	90	Median Log Channel	10.88	223.37	Ratio (RMF) >1.5
118									0				
120	Negative	Positive	Positive	Not Tested	1.38	2.92	5.98		100	Median	572	6947	ratio > 2
122	Negative	Negative	Positive	Negative	53	133	303.5	97	98	Geo mean liner value	72.5	332	3SD
126	Negative	Positive	Positive	Negative	0	158	191	44	90	Median Linear Fluorescence	562	940	>80 linear channel shift
130	Negative	Positive	Positive	Negative	189	367	461	279	95	Mean channel swift	255	438	>80
133	Negative	Positive	Positive	Negative	1.6	16.9	25.6	4.7	80	MFI(median)	2.6	117.7	2SD
138									0				
139	Negative	Negative	Positive	Negative	16.1	17.9	49	14.2	90	MFI	9.28	126	2 * B-cell local negative control
143					NT	NT	NT	NT	88.7	25.2 x 10 <sup>6</sup> cells/mL	NT	NT	NT
144	Negative	Positive	Positive	Negative	1.18	2.52	5.76	1.73	0	Median <sup>†</sup> Ratio	4101	3.57	2.5
145	Negative	Positive	Positive	Negative	1.21	2.63	9.36	2.12	93	median fluorescence intensity	1.45	42.4	mean (ratio med fluorescence test/med fluor neg) +2SD
147	Negative	Positive	Positive	Positive	308	453.5	568	416	100	linear channel	273	419	> 60 linear channel schift
149	Negative	Positive	Positive	Negative	0.488	2.576	2.941	0.771	86	MEDIAN LOG CHANNEL	1.45	42.8	2SD
154	Negative	Positive	Positive	Positive	394	825	2912	1085	0	Median Fluorescence Intensity	276	3493	>250% of the negative control and shape of the curve
157	Negative	Positive	Positive	Equivocal	458	1219	2631	586	97	median log channel	603	18959	2sd(+60)
159	Negative	Positive	Positive	Negative	390	549	611	471	0	Mean linear channel shift	395	607	495 MLC (100 liear channel shift)
160	Negative	Positive	Positive	Negative	73	188	305	102	0	MEAN LINEAR CHANNEL	52.2	507	>164 (NEGATIVE + 2SD)
167	Negative	Positive	Positive	Positive	1471	3172	4498	2375	96	Median log channel	1368	47176	2SD
169	Negative	Equivocal	Positive	Not Tested	245	346	389		95	MEDIAN CHANNEL	268	633	>08 CHANNEL
190	Negative	Positive	Positive	Positive	216	707	877	534	90	MFI	200	919	Ratio Sera/Negative control > 2.69
191	Negative	Positive	Positive	Negative	25	179	293	25	85	mfi	0	342	>100
195	Negative	Negative	Positive	Negative	585	1179	1364	767	90	Median log channel	818	4240	Test / Negative control >= 1,60
201	Negative	Positive	Positive	Negative	1,19	4,91	5,95	1,73	97	mean	2,91	63,2	higher than 2,5
218	Negative	Negative	Negative	Negative	431	401	495	434	62	MFI	559,3	1965	1.7 x geometric mean
235	Negative	Positive	Positive	Negative	0,98	1,17	2,43	0,59	85	median log channel	0,87	9,03	0.15 than above the negative control value
240									60	mfi			
246	Not Tested	Not Tested	Not Tested	Not Tested					0				
252	Negative	Positive	Positive	Negative	0.95	13.3	8.5	1.68	60		792	32166	median ratio +/- 2SD
260	Negative	Positive	Positive	Negative	17.40%	55.68%	73.60%	20.28%	80		22.45%	98.91%	>=25
276	Negative	Positive	Positive	Positive	1422	3281	7806	2762	95	Median Fluorescence Intensity	2175	11581	>-1,5x negative control
293	Negative	Positive	Positive	Negative	5.28	10.94	17.7	6.98	85	channel shift	6.19	154.9	20 channel shift
351	Not Tested	Not Tested	Not Tested	Not Tested									
1353	Not Tested	Not Tested	Not Tested	Not Tested					87	Median Chanel Shift	343	785	2SD-3SD weak positive, > 3SD positive

**UK NEQAS for H&I Scheme 2B - Crossmatching by Flow Cytometry**

Lab Comments	Received	Tested	Assessment
115	26/06/2019	27/06/2019	100%
117	27/06/2019	27/06/2019	100%
118 The samples could not be tested due to delayed delivery and very hot temperature.	27/06/2019	0000-00-00	Not assessed
120 Serum 4 gave incoherent results on B cells regarding results found: positive cross match on T cells and equivocal cross match on B cells (1 duplicate was found positive, 1 duplicate was found negative) and there was not enough cells to repeat the test	26/06/2019	27/06/2019	100%
122	26/06/2019	27/06/2019	66.70%
126 Cells were aggregated/clumped.	26/06/2019	27/06/2019	100%
130	26/06/2019	27/06/2019	100%
133 For serum 2 the titer of the ab expected to be low (negative result with 1/2 dilution)	28/06/2019	28/06/2019	100%
138	26/06/2019	27/06/2019	Not assessed
139	28/06/2019	28/06/2019	66.70%
143 B cell flow cytometry crossmatch is not offered by our laboratory. However, we do perform Luminex SAB Class I and II as diagnostic services for comprehensive HLA testing.	01/07/2019	02/07/2019	Not assessed
144	26/06/2019	27/06/2019	100%
145	26/06/2019	28/06/2019	100%
147 We have received very weak cells and in this sample, we have observed the presence of aggregates.	26/06/2019	26/06/2019	100%
149	26/06/2019	27/06/2019	100%
154	28/06/2019	28/06/2019	100%
157 serum 04 gave T positive, B negative result	26/06/2019	26/06/2019	100%
159	27/06/2019	27/06/2019	100%
160	26/06/2019	27/06/2019	100%
167	26/06/2019	27/06/2019	100%
169 INSUFFICIENT NUMBER CELLS	26/06/2019	27/06/2019	66.70%
190	26/06/2019	27/06/2019	100%
191	27/06/2019	27/07/2019	100%
195	28/06/2019	28/06/2019	66.70%
201	26/06/2019	27/06/2019	100%
218	03/07/2019	03/07/2019	33.30%
235	26/06/2019	26/06/2019	100%
240	01/07/2019	01/07/2019	Not assessed
246 As already mentioned the delivery of the samples was too late. They arrive in the very late evening (26.06.2019, 4:20 pm). Due to this we had a storage problem. That is why we have chosen not to participate.	0000-00-00	0000-00-00	Not assessed
252	21/06/2019	21/06/2019	100%
260	28/06/2019	28/06/2019	100%
276	26/06/2019	28/06/2019	100%
293	27/06/2019	27/06/2019	100%
351 Cell count too low	0000-00-00	0000-00-00	Not assessed
1353 Due to failure in B cell Negative and positive control	30/06/2019	01/07/2019	Not assessed