

UK NEQAS FOR H&I SCHEME 2B - CROSSMATCHING BY FLOW CYTOMETRY

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B06/2014 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 20TH MAY 2014

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A3; B27, B35; Cw1, Cw4; DR1, -, DQ5, DQ7

Summary of Results

Total tested	23	22	22	23
Positive	1	10	10	12
Negative	22	12	12	11
Not Tested	0	1	1	0
% Positive	4.3%	45.5%	45.5%	52.2%
% Negative	95.7%	54.5%	54.5%	47.8%

Consensus	Negative	Not Assessed	Not Assessed	Not Assessed			
HLA Antibody (Defined By CDC)	A29	B7	B12	A11			
Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
9	Negative	NT	NT	Negative	21-May	22-May	Serum 2, 3 - NT due to poor reproducibility of the duplicates
11	Positive	Positive	Positive	Positive	21-May	22-May	
12	Negative	Negative	Negative	Negative	21-May	21-May	
14	Negative	Positive	Negative	Positive	21-May	21-May	
15	Negative	Positive	Positive	Positive	21-May	21-May	
19	Negative	Positive	Negative	Positive	21-May	21-May	
20	Negative	Positive	Positive	Positive	21-May	22-May	
23	Negative	Negative	Negative	Negative	21-May	21-May	
24	Negative	Negative	Negative	Negative	21-May	22-May	
25	Negative	Negative	Negative	Positive	22-May	22-May	
28	Negative	Weak Positive	Negative	Negative	21-May	21-May	
34	Negative	Negative	Negative	Negative	22-May	22-May	
35	Negative	Negative	Negative	Negative	22-May	23-May	
38	Negative	Positive	Positive	Positive	21-May	21-May	
39	Negative	Negative	Negative	Negative	21-May	21-May	
41	Negative	Negative	Negative	Negative	21-May	21-May	
42	Negative	Weak Positive	Weak Positive	Weak Positive	21-May	21-May	
45	Negative	Negative	Positive	Positive	21-May	22-May	
48	Negative	Negative	Positive	Negative	21-May	21-May	
51	Negative	Negative	Negative	Negative	21-May	22-May	
54	Negative	Positive	Positive	Positive	21-May	22-May	
58	Negative	Positive	Positive	Positive	21-May	21-May	
62	Negative	Negative	Positive	Positive	21-May	21-May	

PLEASE NOTE: THE NEXT DISTRIBUTIONS IS ON 8TH JULY 2014

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Lab No.	Serum 1 cytometer reading	Serum 2 cytometer reading	Serum 3 cytometer reading	Serum 4 cytometer reading	Negative control (local)	Positive control (local)	Strong positive (local)	Weak positive (local)	Positive result value	Cytometer reading units	FCXM NIBSC negative control used?
9	0.23	-	-	0.16	0.41	1.5			≥ 1.5 trimmed mean	Median x (log)	No
11	73	90	89	97	65, 64, 65, 69	136, 964			69.59 (mean + 2SD)	Median log channel	No
12	119	140	143	117	97	206			Ratio ≥ 1.5 of neg MCF	MCF	Yes
14	223.5	282	260	276.5	179	3970			1.5 x mean negative	Median log channel	Yes
15	1.21	1.62	2.01	1.74	187.5	18852.5			RMF > 1.50	RMF	No
19	0.393	0.574	0.466	0.526	0.395	13.533, 10.240				Log median x	No
20	0.363	0.471	0.503	0.482	0.305	0.825			≥ 40 linear channel shift	Linear channel fluorescence	No
23	3.17	3.69	3.39	4.82	3.55	40.4			350 (> 5.20)	MCF	Yes
24	250	300.5	273	248.5	263		10850	1230	RR > 2.0	MFCN	Yes
25	173	164	174	193	144	9147			> 1.3 RMF	Median log channel	Yes
28	121	142	124	102	81	809			Pos/Neg ratio ≥ 1.6	MFI	No
34	13.33	14.63	12.77	12.93	14.22	74.7			Median + 2SD	Median FLI	No
35	1.84	2.58	2.33	2.93	1.86	8.73			3.0 (3SD x mean + clinical cut-off)	Median log channel	Yes
38	30.7	43.4	80.5	82	0	433.6			≥ 43	Mean linear channel shift	No
39	0.16	0.19	0.2	0.2	0.14	2.6			> 1.5 RMF	Median log fluorescence	No
41	160	203	197	207	155	12834			2SD	Median fluorescence	No
42	788	811	808	830	776		1090	872	Test sera>negative control in relation to patient clinical history	Median linear channel	No
45	232	243	278	254	214	625			≥ 254 MCV (40 channel shift)	Median channel value	Yes
48	0.43	0.55	0.62	0.57	0.39	9.53			≥ 1.5 RMF		Yes
51	0.8	0.9	0.89	0.67	1	91.2			3.02		No
54	290, 281	320, 326	374, 368	326, 318	250 (mean)	776			Pos:Neg Ratio 1.2:1 or greater	Median channel value	No
58	0.88	1.17	1.24	1.32	0.93	4.25			1.02 (2SD)	Log median	Yes
62	0.357	0.422	0.494	0.51	0.3	1.77			RMF > 1.50	Median log channel	Yes

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Summary of Results

Total tested	20	20	20	19
Positive	15	15	3	2
Negative	5	5	17	17
Not Tested	0	0	0	0
% Positive	75.0%	75.0%	15.0%	10.5%
% Negative	25.0%	25.0%	85.0%	89.5%

Consensus **Positive** **Positive** **Negative** **Negative**

HLA Antibody Specificity
(Defined By CDC)

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
11	Positive	Positive	Negative	Equivocal	21-May	22-May	
12	Positive	Positive	Negative	Negative	21-May	21-May	
14	Positive	Positive	Negative	Negative	21-May	21-May	
15	Positive	Positive	Negative	Negative	21-May	21-May	
19	Positive	Positive	Negative	Negative	21-May	21-May	
20	Positive	Positive	Negative	Negative	21-May	22-May	
23	Positive	Positive	Negative	Negative	21-May	21-May	
24	Negative	Negative	Negative	Negative	21-May	22-May	
25	Positive	Positive	Negative	Negative	22-May	22-May	
28	Negative	Negative	Negative	Negative	21-May	21-May	
34	Positive	Positive	Negative	Negative	22-May	22-May	
38	Positive	Positive	Positive	Positive	21-May	21-May	
39	Negative	Negative	Negative	Negative	21-May	21-May	
41	Positive	Positive	Negative	Negative	21-May	21-May	
42	Weak Positive	Weak Positive	Positive	Weak Positive	21-May	21-May	
48	Positive	Positive	Negative	Negative	21-May	21-May	
51	Negative	Negative	Negative	Negative	21-May	22-May	
54	Positive	Positive	Positive	Negative	21-May	22-May	
58	Positive	Positive	Negative	Negative	21-May	21-May	
62	Negative	Negative	Negative	Negative	21-May	21-May	

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Lab No.	Serum 1 cytometer reading	Serum 2 cytometer reading	Serum 3 cytometer reading	Serum 4 cytometer reading	Negative control (local)	Positive control (local)	Strong positive (local)	Weak positive (local)	Positive result value	Cytometer reading units	FCXM NIBSC negative control used?
11	1833	1298	820	1060	848, 791, 749, 805	954, 5372			1277 (1.6 x RMF)	Median log channel	No
12	1198	1158	485	402	475	1260			Ratio ≥ 1.5 of neg MCF	MCF	Yes
14	2585	2066.5	1531.5	1674	1377	7637.5			1.5 x mean negative	Median log channel	Yes
15	1.52	1.95	1.1	1.04	3043	2783.5			RMF > 1.50	RMF	No
19	9.79	8.749	6.245	6.62	5.95	34.798, 22.801				Log median x	No
20	11.672	8.853	6.55	6.434	5.062	8.853			≥ 40 linear channel shift	Linear channel fluorescence	No
23	34.23	39.36	19.38	15.39	21.98	134.19			280 (> 26.58)	MCF	Yes
24	3635	2086	1723	938.5	2299		33456	5671	RR > 2.5	MFCN	Yes
25	2064	1637	1235	1066	1243	15368			> 1.3 RMF	Median log channel	Yes
28	460	411	280	258	327	1230			Pos/Neg Ratio ≥ 2.0	MFI	No
34	20.2	14.7	11.8	11.5	12.66	33.6			Median + 2SD	Median FLI	No
38	39.5	30.9	16.5	51	0	163.2			≥ 16	Mean linear channel shift	No
39	2.69	1.54	1.25	1.09	1.37	7.13			> 2.0 RMF	Median log fluorescence	No
41	1475	1279	843	781	839	19018			2SD	Median fluorescence	No
42	1033	1027	1061	1010	972		1261	1125	Test sera>negative control in relation to patient clinical history	Median linear channel	No
48	8.64	8.11	5.23	4.89	5.28	26.59			≥ 1.5 RMF		Yes
51	3.4	4.6	1.17	0.41	0.9	81.8			10.9		No
54	653, 656, 656	655, 657, 667	651, 648, 647	624, 626, 606	586 (mean)	851			Pos:Neg Ratio 1.2:1 or greater	Median channel value	No
58	7.12	6.74	4.22	2.40	4.30	9.6			4.6 (2SD)	Log median	Yes
62	5.24	3.59	4.10	3.56	3.40	11.3			RMF > 3	Median log channel	Yes