

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B05/2014 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 20TH MAY 2014

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A24; B7, B13; Cw6, Cw7; DR7, DR15; DQ2, DQ6

Summary of Results

Total tested	23	23	21	22
Positive	14	23	15	15
Negative	9	0	6	7
Not Tested	0	0	1	0
% Positive	60.9%	100.0%	71.4%	68.2%
% Negative	39.1%	0.0%	28.6%	31.8%

Consensus	Not Assessed	Positive	Not Assessed	Not Assessed
HLA Antibody (Defined By CDC)	A11	B12	B7	A29

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
9	Positive	Positive	NT	Negative	21-May	22-May	Serum 3 - Not Tested (Poor duplicates, no reproducible)
11	Positive	Positive	Positive	Positive	21-May	22-May	
12	Positive	Positive	Negative	Negative	21-May	21-May	
14	Positive	Positive	Positive	Positive	21-May	21-May	
15	Positive	Positive	Positive	Positive	21-May	21-May	
19	Negative	Positive	Positive	Negative	21-May	21-May	
20	Positive	Positive	Positive	Positive	21-May	22-May	
23	Weak Positive	Positive	Weak Positive	Weak Positive	21-May	21-May	
24	Negative	Positive	Negative	Positive	21-May	22-May	
25	Positive	Positive	Positive	Positive	22-May	22-May	
28	Weak Positive	Positive	Weak Positive	Weak Positive	21-May	21-May	
34	Negative	Positive	Negative	Negative	22-May	22-May	
35	Negative	Positive	Equivocal	Equivocal	22-May	23-May	
38	Negative	Positive	Positive	Positive	21-May	21-May	
39	Weak Positive	Positive	Positive	Positive	21-May	21-May	
41	Negative	Positive	Negative	Negative	21-May	21-May	
42	Weak Positive	Positive	Weak Positive	Weak Positive	21-May	21-May	
45	Positive	Positive	Positive	Positive	21-May	22-May	
48	Negative	Positive	Negative	Negative	21-May	21-May	
51	Negative	Positive	Negative	Weak Positive	21-May	22-May	
54	Positive	Positive	Positive	Positive	21-May	22-May	
58	Negative	Positive	Positive	Negative	21-May	21-May	
62	Positive	Positive	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	1.2	1.9	NT	0.27	0.64	4.4			≥1.5 trimmed mean	Mean x (log)	No
	103	400	144	161	75, 80, 80, 75	245, 1546			>82.50	Median log channel	No
11					cutoff = mean+2SD = 82.50						
12	214	336	141	115	91	392			Ratio ≥1.5 of neg MCF	MCF	Yes
14	306.5	795	336.5	305.5	188	8798.5			1.5 x mean negative	Median log channel	Yes
15	1.7	4.8	1.8	1.8	243	89.4			>1.5 RMF	RMF	No
	0.573	2.575	0.98	0.659	0.464	Pos 1 - 21.218				Log median	No
19						Pos 2 - 16.945					
20	0.555	2.095	0.711	0.753	0.358	1.243			≥40 linear channel shift	MCF	No
23	3.8	18.05	5.45	5.62	2.79	41.42			3SD (>3.43)	MCF	Yes
24	311.5	1875	337	455	204.5		12619	519	RR>2.0	MFCN	Yes
25	152	885	260	267	95	5704			>1.3 RMF	Median log channel	Yes
28	105.6	226.7	113.5	129.2	51	661.5			≥1.6 pos/neg ratio	MFI	No
34	16.9	36.37	19.1	18.13	17.96	70.2			Median +2SD	MFLI	No
35	3.16	14.95	4.74	4.02	2.01	11.82			4.00 (3SD x mean + clinical cut-off)	Median log channel	Yes
38	35.4	163.3	53	60.9	0	410.5			≥46	Mean linear channel shift	No
39	0.22	0.78	0.28	0.28	0.14	6.72			>1.5 RMF	Median log fluorescence	No
41	318	1183	319	304	232	20668			2SD	Median log channel	No
	836	923	839	846	790		1213	902	Test sera >neg control in relation to patient clinical history	Median linear channel	No
42											
45	300	404	300	305	234	710			≥274 MCV (40 channel shift)	Median channel value	Yes
48	0.58	1.38	0.58	0.65	0.44	9.2			≥1.5 RMF		Yes
51	2.3	7.08	2.42	3.2	0.98	170			2.98		No
54	374, 378	529, 529	410, 412	395, 396	309, 303, 302	816			Test/Neg control ratio ≥1.2	Median channel shifts	No
58	1.47	2.93	1.74	1.57	1.3	6.3			1.36 2SD	Log median	Yes
62	0.565	1.695	0.668	0.65	0.328	1.52			RMF >1.5	Median log channel	Yes

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Summary of Results

Total tested	19	20	20	20
Positive	3	19	18	20
Negative	16	1	2	0
Not Tested	0	0	0	0
% Positive	15.8%	95.0%	90.0%	100.0%
% Negative	84.2%	5.0%	10.0%	0.0%

Consensus	Negative	Positive	Positive	Positive
HLA Antibody (Defined By CDC)	A11	B12	B7	A29

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
11	Equivocal	Positive	Positive	Positive	21-May	22-May	
12	Positive	Positive	Positive	Positive	21-May	21-May	
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11	952	1616	1542	6793	569, 711, 733, 631	1083, 3983			1059 (1.6 x RMF)	Median log channel	No
12	583	876	741	4746	223	718			Ratio ≥ 1.5 of neg MCF	MCF	Yes
14	1666.5	2488.5	2411	5920	1107	12259.5			1.5 x mean negative	Median log channel	Yes
15	0.8	1.3	1.1	3.7	4135	9.8			>1.5 RMF	RMF	No
	5.169	7.748	8.526	16.494	4.329	Pos 1 - 43.572				Log median	No
19						Pos 2 - 22.801					
20	4.988	10.148	8.205	43.87	3.524	7.938			≥ 40 linear channel shift	Linear channel fluorescence	No
23	10.59	32.87	29.03	100.65	10.79	90.99			2SD (>16.93)	MCF	Yes
24	1539	4585.5	1818	26633.5	1090.5		35021	1855	RR>2.5	MFCN	Yes
25	892	2353	2014	9710	880	7884			>1.3 RMF	Median log channel	Yes
28	411	729.6	707.7	3092.7	291.1	1685			≥ 2.0 pos/neg ratio	MFI	No
34	9.11	14.8	14.13	39.83	7.76	38.8			Median +2SD	MFLI	No
38	-30	64.9	64	226.9	0	236.9			≥ 63	Mean linear channel shift	No
39	0.86	2.05	1.75	7.99	0.18	11.3			>2.0 RMF	Median log fluorescence	No
41	919	2710	1721	10927	789	36500			2SD	Median log channel	No
	975	1066	1031	1226	982		1317	1100	Test sera >neg cotrol in relation to patient clinical history	Median linear channel	No
42											
48	3.03	4.94	4.92	27.35	2.51	23.53			≥ 1.5 RMF		Yes
51	1.63	10.36	10.76	65.15	0.9	120			10.2		No
54	588, 611, 582	669, 650, 666	632, 648, 642	804, 792, 786	573, 584, 577	914			Test/Neg control ratio ≥ 1.2	Median channel shifts	No
58	4.17	10.97	10.10	36.60	3.94	11.0			4.46 2SD	Log median	Yes
62	2.60	5.97	6.56	30.50	1.99	7			RMF >3	Median log channel	Yes