

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B07/2014 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 8TH JULY 2014

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A26; B37, B58; Cw10, Cw6; DR7, DR11; DQ2, DQ7

Summary of Results

Total tested	23	21	23	22
Positive	22	18	1	17
Negative	1	3	22	5
Not Tested	0	0	0	0
% Positive	95.7%	85.7%	4.3%	77.3%
% Negative	4.3%	14.3%	95.7%	22.7%

<b>Consensus</b>	<b>Positive</b>	<b>Positive</b>	<b>Negative</b>	<b>Positive</b>
HLA Antibody (Defined By CDC)	B57	A3	Cw17	A2, A28

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
9	Positive	Positive	Negative	Negative	09-Jul	10-Jul	
11	Positive	Positive	Negative	Positive	09-Jul	10-Jul	
12	Negative	Negative	Negative	Negative	09-Jul	09-Jul	
14	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
15	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
19	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
20	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
23	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
24	Positive	Positive	Negative	Negative	09-Jul	11-Jul	
25	Positive	Positive	Negative	Positive	09-Jul	10-Jul	
28	Weak Positive	Weak Positive	Weak Positive	Weak Positive	09-Jul	10-Jul	
34	Positive	Negative	Negative	Negative	09-Jul	09-Jul	
35	Positive	Equivocal	Negative	Positive	09-Jul	10-Jul	
38	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
39	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
41	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
42	Positive	Weak Positive	Negative	Weak Positive	09-Jul	10-Jul	
45	Positive	Positive	Negative	Positive	09-Jul	10-Jul	
48	Positive	Positive	Negative	Positive	09-Jul	10-Jul	
51	Positive	Equivocal	Negative	Equivocal	09-Jul	10-Jul	
54	Positive	Positive	Negative	Positive	09-Jul	10-Jul	
58	Positive	Negative	Negative	Negative	09-Jul	09-Jul	
62	Positive	Positive	Negative	Positive	09-Jul	09-Jul	

PLEASE NOTE: THE NEXT DISTRIBUTIONS IS ON 23RD SEPTEMBER 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	1.52	1.62	0.37	0.49	0.48	9.26			≥1.5 trimmed median	Median x (log)	No
11	127.5	72	37.5	84.5	51, 48, 44, 47	116, 292			>52.50 mean neg control +2SD	Median log channel	No
12	66	63	60	68	56	146			Ratio ≥1.5 of neg MCF	Median channel fluorescence	Yes
14	657.5	553.5	441.5	603.5	339	6479.5			1.5x Negative	Median log channel	Yes
15	3.62	2.05	1.07	2.79	127.5	11928.5			RMF >1.5		No
19	1.294	0.592	0.343	0.636	0.353	8.402				Log median x	No
20	1.02	0.500	0.265	0.510	0.255	1.012			40 linear channel shift	Median channel fluorescence	No
23	10.06	4.96	2.81	9.67	2.13	20.17			+3 SD	Median channel fluorescence	Yes
24	884	327	135	241	188		5463	3140	RR >1.5	MFCN	Yes
25	550	224	127	287	103	5417			>1.3 RMF	Median log channel	Yes
28	186	162	187	207	100	1265			12.7 >1.5 = Positive	MFI	No
34	17.3	13.33	11.53	12	12.2	59.2			Median +2SD 15.57		No
35	5.17	2.67	1.34	2.67	1.35		97.25	5.31			Yes
38	203.7	112	0	122.1	0	437.8			≥46	Mean linear channel shift	No
39	0.43	0.28	0.2	0.3	0.18	3.92			>1.5 RMF	Median log fluorescence	No
41	426	240	139	279	142	8083			Mean Neg+2SD -157	Median	No
42	871	827	774	824	770		1267	876	Test sera > Neg control serum in relation to patient clinical history	Mean linear channel	No
45	315	263	209	294	214	653			≥254 (≥40 channel shift)	Median channel value	Yes
48	1.01	0.68	0.5	0.73	0.5	4.44			≥1.3 RMF		Yes
51	5.98	3.13	1.95	2.57	1.83	84.29			3.8		No
54	454, 464, 443	377; 391; 395	340; 217; 279	353; 391; 417	264; 289; 293	741			Test/Neg ratio ≥1.2 = Weak Positive	Median channel shifts	No
58	2.19	1.62	1.39	1.56	1.43	2.61			≥1.5 = Positive	Log median	Yes
62	1.435	0.844	0.5128	0.899	0.413	1.21			1.53 2SD	Median log channel	Yes
									RMF >1.5		Yes

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HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A26; B37, B58; Cw10, Cw6; DR7, DR11; DQ2, DQ7

Summary of Results

Total tested	18	16	18	18
Positive	17	5	0	18
Negative	1	11	18	0
Not Tested	2	2	2	2
% Positive	94.4%	31.3%	0.0%	100.0%
% Negative	5.6%	68.8%	100.0%	0.0%

<b>Consensus</b>	<b>Positive</b>	<b>Not Assessed</b>	<b>Negative</b>	<b>Positive</b>
HLA Antibody (Defined By CDC)	B57	A3	Cw17	A2, A28

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
11	Positive	Equivocal	Negative	Positive	09-Jul	10-Jul	
12	Negative	Negative	Negative	Positive	09-Jul	09-Jul	
14	Positive	Negative	Negative	Positive	09-Jul	09-Jul	
15	Positive	Negative	Negative	Positive	09-Jul	09-Jul	Serum 3 - Agglutination noted
19	Positive	Negative	Negative	Positive	09-Jul	09-Jul	
20	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
23	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
24	Positive	Negative	Negative	Positive	09-Jul	11-Jul	
25	Positive	Negative	Negative	Positive	09-Jul	10-Jul	
28	NT	NT	NT	NT	09-Jul	10-Jul	Technically unsatisfactory - Low cell count
34	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
38	Positive	Negative	Negative	Positive	09-Jul	09-Jul	
39	NT	NT	NT	NT	09-Jul	09-Jul	Insufficient B-cells - FCXM could not be reported
41	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
42	Positive	Weak Positive	Negative	Positive	09-Jul	10-Jul	
48	Positive	Negative	Negative	Positive	09-Jul	10-Jul	
51	Positive	Equivocal	Negative	Positive	09-Jul	10-Jul	
54	Positive	Negative	Negative	Positive	09-Jul	10-Jul	
58	Positive	Negative	Negative	Positive	09-Jul	09-Jul	
62	Positive	Negative	Negative	Positive	09-Jul	09-Jul	

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11	15.6	964	691	6077	637, 640, 776, 884	887, 2241			>11774.80 1.6x RMF	Median log channel	No
12	116	109	107	514	90	1061			Ratio $\geq 1.5$ of neg MCF	Median channel fluorescence	Yes
14	2811.5	2328.5	1812	9262	1843	16211.5			1.5x Negative	Median log channel	Yes
15	1.55	1.03	0.84	6.87	1975.5	21774			RMF >1.5		No
19	10.148	6.189	4.545	28.168	4.517	70.184				Log median x	No
20	10.09	6.262	3.058	43.021	3.826	7.056			40 linear channel shift	Median channel shift	No
23	36.68	28.81	10.9	164.5	12.4	130			+2 SD	Median channel fluorescence	Yes
24	4306	2344	779	7830	2133		19134	18665	RR >2.0	MFCN	Yes
25	3145	1198	883	13337	1361	10078			>1.3 RMF	Median log channel	Yes
28	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
34	14.47	11.67	9.02	35.97	8.86	43.6			Median +2SD 10.54		No
38	78.6	5.5	-30.4	239.7	0	208.1			$\geq 63$	Mean linear channel shift	No
39	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
41	1824	816	546	8828	402	19300			Mean Neg+2SD -535	Median	No
42	1056	1010	963	1201	966		1419	1111	Test sera > Neg control serum in relation to patient clinical history	Mean linear channel	No
48	7.15	3.78	3.48	34.18	3.35	21.91			$\geq 1.3$ RMF		Yes
51	14.73	4.76	2.47	29.11	2.76	129			5.6		No
	619; 622	563; 560	552; 563	751; 756	543; 532; 531	788			Test/Control ratio $\geq 1.2$ = Weak Positive	Median channel shifts	No
54									$\geq 1.5$ = Positive		
58	9.70	3.52	2.47	34.30	3.40	16.7			4.3 2SD	Log median	Yes
62	9.40	3.70	1.50	47.40	2.50	21			RMF >3	Median log channel	Yes