

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B08/2014 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 8TH JULY 2014

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A25; B8, B60; Cw10, Cw7; DR17, DR4; DQ2, DQ8

Summary of Results

Total tested	23	23	23	21
Positive	21	23	3	8
Negative	2	0	20	13
Not Tested	0	0	0	1
% Positive	91.3%	100.0%	13.0%	38.1%
% Negative	8.7%	0.0%	87.0%	61.9%

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

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
9	Positive	Positive	Negative	NT	09-Jul	10-Jul	
11	Positive	Positive	Negative	Positive	09-Jul	10-Jul	
12	Negative	Positive	Negative	Negative	09-Jul	09-Jul	
14	Positive	Positive	Negative	Negative	09-Jul	09-Jul	
15	Positive	Positive	Negative	Positive	09-Jul	09-Jul	
19	Positive	Positive	Negative	Negative	09-Jul	09-Jul	
20	Positive	Positive	Negative	Negative	09-Jul	09-Jul	
23	Weak Positive	Positive	Negative	Negative	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	Positive	Weak Positive	Weak Positive	09-Jul	10-Jul	
34	Negative	Positive	Negative	Negative	09-Jul	09-Jul	
35	Positive	Positive	Negative	Equivocal	09-Jul	10-Jul	
38	Positive	Positive	Positive	Positive	09-Jul	10-Jul	
39	Positive	Positive	Negative	Negative	09-Jul	09-Jul	
41	Positive	Positive	Negative	Negative	09-Jul	09-Jul	
42	Positive	Positive	Negative	Weak Positive	09-Jul	10-Jul	
45	Positive	Positive	Negative	Negative	09-Jul	10-Jul	
48	Positive	Positive	Negative	Negative	09-Jul	10-Jul	
51	Positive	Positive	Negative	Negative	09-Jul	10-Jul	
54	Positive	Positive	Negative	Weak Positive	09-Jul	10-Jul	
58	Positive	Positive	Negative	Negative	09-Jul	09-Jul	
62	Positive	Positive	Positive	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	0.97	1.43	0.29	NT	0.55	19.43			≥1.5 trimmed median	Median x (log)	No
11	69	414.5	42	394	45, 40, 39	205, 707			>46.6 mean neg control +2SD	Median log channel	No
12	67	141	64	65	62	116			Ratio ≥1.5 of neg MCF	Median channel fluorescence	Yes
14	768	2992.5	440.5	459.5	385.5	7564			1.5x Negative	Median log channel	Yes
15	Median 411.5 RMF 3	3128.5 22.8	157 1.15	209.5 1.53	137	10633.5			RMF >1.5		No
19	0.600	3.943	0.350	0.411	0.362	12.4				Log median x	No
20	0.544	1.981	0.239	0.302	0.235	1.147			40 linear channel shift	Median channel fluorescence	No
23	6.12	53.01	3.76	4.03	4.8	54.25			+3 SD	Median channel fluorescence	Yes
24	284	2405	158	216	174		5749	1083	RR >1.5	MFCN	Yes
25	324	2129	77	108	67	4833			>1.3 RMF	Median log channel	Yes
28	216	692	177	212	107	1247			11.7	MFI	No
34	15.43	77.97	14.37	12.2	11.55	72.8			Median +2SD 15.73		No
35	4.21	44.55	1.72	2.41	1.52		69.14	11.4	2.07		Yes
38	149.4	377.5	34	96	0	485.9			≥34	Mean linear channel shift	No
39	0.3	1.91	0.2	0.22	0.19	5.15			>1.5 RMF	Median log fluorescence	No
41	504	4039	189	244	189	17289			+2SD	Median	No
42	876	1070	789	812	775		1254	889	Test sera > Neg control serum in relation to patient clinical history	Mean linear channel	No
45	274	447	215	232	201	565			≥241 (≥40 channel shift)	Median channel value	Yes
48	0.67	3.31	0.42	0.45	0.39	7.51			≥1.3 RMF		Yes
51	4.83	30.77	2.42	2.9	1.89	156			3.95		No
54	436, 440	642, 638	334, 333	356, 357	294, 279, 277	775			Test/Neg ratio ≥1.2 = Weak Positive	Median channel shifts	No
									≥1.5 = Positive		
58	1578.98	1.28	1.36	1.06	3.91				1.13 2SD	Log median	Yes
62	1.13	5.6	0.8	1	0.56	2.75			RMF >1.5	Median log channel	Yes

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Summary of Results

Total tested	17	19	18	19
Positive	4	19	12	2
Negative	13	0	6	17
Not Tested	1	1	1	1
% Positive	23.5%	100.0%	66.7%	10.5%
% Negative	76.5%	0.0%	33.3%	89.5%

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

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
11	Equivocal	Positive	Positive	Positive	09-Jul	10-Jul	
12	Negative	Positive	Negative	Negative	09-Jul	09-Jul	
14	Positive	Positive	Positive	Negative	09-Jul	09-Jul	
15	Negative	Positive	Negative	Negative	09-Jul	09-Jul	
19	Negative	Positive	Negative	Negative	09-Jul	09-Jul	
20	Negative	Positive	Failed	Negative	09-Jul	09-Jul	Serum 3 - Gave ambiguous results. Insufficient material to repeat the test.
23	Inconclusive	Positive	Weak Positive	Negative	09-Jul	09-Jul	
24	Negative	Positive	Negative	Negative	09-Jul	11-Jul	
25	Negative	Positive	Positive	Negative	09-Jul	10-Jul	
28	NT	NT	NT	NT	09-Jul	10-Jul	Technically unsatisfactory - Low cell count
34	Negative	Positive	Positive	Negative	09-Jul	09-Jul	
38	Negative	Positive	Positive	Negative	09-Jul	10-Jul	
39	Negative	Positive	Negative	Negative	09-Jul	09-Jul	
41	Positive	Positive	Positive	Negative	09-Jul	09-Jul	
42	Positive	Positive	Positive	Weak Positive	09-Jul	10-Jul	
48	Negative	Positive	Positive	Negative	09-Jul	10-Jul	
51	Positive	Positive	Positive	Negative	09-Jul	10-Jul	
54	Negative	Positive	Positive	Negative	09-Jul	10-Jul	
58	Negative	Positive	Negative	Negative	09-Jul	09-Jul	
62	Negative	Positive	Positive	Negative	09-Jul	09-Jul	

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11	498	1497.5	709.5	1133.5	384, 304, 484	685, 22.5			>625 1.6x RMF	Median log channel	No
12	77	179	96	78	82	691			Ratio $\geq 1.5$ of neg MCF	Median channel fluorescence	Yes
14	2387.5	5262	2461.5	2068	1546	17603.5			1.5x Negative	Median log channel	Yes
15	Median 1232.5	4015.00	2016.5	972	1065	21084.5					
19	RMF 1.16	3.77	1.89	0.91					RMF >1.5		No
20	3.345	10.837	4.662	3.809	3.196	53.6				Log median x	No
20	1.937	6.732	Failed	2.89	2.285	6.445			40 linear channel shift	Median channel shift	No
23	-	80.27	19.46	7.79	9.26	125.7			+2 SD	Median channel fluorescence	Yes
24	483	3209	742	466	607		16910	6521	RR >2.0	MFCN	Yes
25	1013	3843	1112	237	307	10574			>1.3 RMF	Median log channel	Yes
28	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
34	4.5	14.8	6.61	3.75	3.48	45.6			Median +2SD 5.54		No
38	27.5	152	82.4	-2.6	0	217.3			$\geq 63$	Mean linear channel shift	No
39	0.88	3.85	1.21	0.75	0.81	15.55			>2.0 RMF	Median log fluorescence	No
41	1122	4062	2103	814	598	32981			+2SD	Median	No
42	1055	1142	1039	987	928		1391	1099	Test sera > Neg control serum in relation to patient clinical history	Mean linear channel	No
48	1.7	5.9	2.78	1.24	1.61	16.67			$\geq 1.3$ RMF		Yes
51	5.06	31.8	19.4	3.35	2.55	173			4.39		No
54	567, 581, 610	685, 676, 672	641, 634, 631	610, 576, 574	513, 539, 527, 556, 571, 559	764			Test/Control ratio $\geq 1.2$ = Weak Positive	Median channel shifts	No
58	4.03	18.90	4.97	2.30	4.41	7.21			$\geq 1.5$ = Positive	Log median	Yes
62	2.10	14.00	4.70	2.10	1.30	22.9			4.74 2SD	Median log channel	Yes
									RMF >3		