

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B03/2014 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 11TH MARCH 2014

HLA PHENOTYPE OF BLOOD DONOR: HLA-A3, A25; B18, B35; Cw4, Cw12; DR1, DR15; DQ5, DQ6

Summary of Results

Total tested	23	23	23	23
Positive	0	1	0	18
Negative	23	22	23	5
Not Tested	0	0	0	0
% Positive	0.0%	4.3%	0.0%	78.3%
% Negative	100.0%	95.7%	100.0%	21.7%

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

HLA Antibody Specificity (Defined By CDC)

	B12	B8	B57	A2, A28
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Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
9	Negative	Negative	Negative	Positive	12-Mar	13-Mar	
11	Negative	Negative	Negative	Positive	12-Mar	13-Mar	
12	Negative	Negative	Negative	Positive	12-Mar	12-Mar	
14	Negative	Negative	Negative	Positive	12-Mar	12-Mar	
15	Negative	Negative	Negative	Negative	12-Mar	12-Mar	
19	Negative	Negative	Negative	Positive	12-Mar	13-Mar	
20	Negative	Negative	Negative	Positive	12-Mar	13-Mar	
23	Negative	Negative	Negative	Positive	12-Mar	12-Mar	
24	Negative	Negative	Negative	Negative	12-Mar	13-Mar	
25	Negative	Negative	Negative	Negative	12-Mar	13-Mar	
28	Negative	Positive	Negative	Positive	12-Mar	12-Mar	
34	Negative	Negative	Negative	Negative	11-Mar	12-Mar	
35	Negative	Negative	Negative	Positive	12-Mar	13-Mar	
38	Negative	Negative	Negative	Positive	12-Mar	12-Mar	
39	Negative	Negative	Negative	Positive	12-Mar	12-Mar	
41	Negative	Negative	Negative	Negative	12-Mar	12-Mar	
42	Negative	Negative	Negative	Negative	12-Mar	13-Mar	
45	Negative	Negative	Negative	Positive	12-Mar	13-Mar	
48	Negative	Negative	Negative	Positive	12-Mar	12-Mar	
51	Negative	Negative	Negative	Positive	12-Mar	13-Mar	
54	Negative	Negative	Negative	Positive	12-Mar	13-Mar	
58	Negative	Negative	Negative	Positive	12-Mar	12-Mar	
62	Negative	Negative	Negative	Positive	12-Mar	13-Mar	

PLEASE NOTE: THE NEXT DISTRIBUTIONS IS ON 20TH MAY 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	0.19	0.18	0.18	2.36	0.33	8.9			≥1.5 Trimmed Median	Mean x (log)	No
11	54	55	54	81	62	149			>68 (2SD)	Median Log Channel	No
12	164	141	150	336	163	218.5			ratio ≥1.5 of neg MCF	Median Channel Fluorescence (MCF)	Yes
14	188.5	184	181	274	177.5	3592			1.5x Mean neg value = 266.25	Median Log Channel	Yes
15	RMF 0.73	0.60	0.60	1.18	379	32.5			RMF >1.5	RMF	No
19	0.404	0.422	0.417	0.660	0.419	Pos 1 - 7.889 Pos 2 - 3.640				Log Median x	No
20	0.322	0.328	0.330	0.546	0.287	1.062			≥40 Linear channel shift	Median Channel Fluorescence	No
23	2.50	2.53	2.56	4.29	2.19	34.6			+3SD	Median Channel Fluorescence	Yes
24	154	161	192	266	198		4831		RR >1.5	MFCN	Yes
25	128	112	107	208	158	4509			>1.3 RMF	Median Log Channel	No
28	77	96	69	103	48	693			ratio = 14.4 (ratio above 1.5 is pos)	Median Fluorescent Intensity (MFI)	No
34	5.9	5	5	6.1	5.4	50			Median +2SD	Median FLI	No
35	1.82	1.60	1.52	3.41	1.73	8.27			2.35 (3SD+Mean of neg control)	Median Log Channel	Yes
38	0	0	0	45.1	0	471.2			≥45	Mean Linear Channel Shift	No
39	0.16	0.15	0.15	0.22	0.15	1.71			>1.5 RMF	Median Log Fluorescence	No
41	204	207	200	396	231	5655			Mean neg control +2SD	Median Log Channel	No
42	771	770	765	813	785		1171	870	Test Sera > Negative control serum in relation to patient clinical history	Mean Linear Channel	No
45	221	225	219	298	215	637			≥255 (≥40 channel shift)	Median Channel Value	Yes
48	0.2	0.2	0.2	0.3	0.3	2.7			≥1.3 RMF		Yes
51	2.18	1.75	1.54	5.27	1.69	150.00			2.75		No
54	282; 289	273; 267	264; 268	377; 374	275; 267; 278	631			Test/Negative Ratio ≥ 1.2 = Weak Positive Test/Negative Ratio ≥ 1.5 = Positive		No
58	1.34	1.30	1.36	1.61	1.29	8.54			1.36	Log Median	Yes
62	0.64	0.53	0.57	1.03	0.58	3.24			RMF >1.5	Median Log Channel	Yes

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Summary of Results

Total tested	20	20	20	20
Positive	2	12	5	20
Negative	18	8	15	0
Not Tested	0	0	0	0
% Positive	10.0%	60.0%	25.0%	100.0%
% Negative	90.0%	40.0%	75.0%	0.0%

Consensus Negative Not Assessed Negative Positive

HLA Antibody Specificity (Defined By CDC)	B12	B8	B57	A2, A28
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20	Positive	Positive	Positive	Positive	12-Mar	13-Mar	
23	Negative	Positive	Weak Positive	Positive	12-Mar	12-Mar	
24	Negative	Negative	Negative	Positive	12-Mar	13-Mar	
25	Positive	Positive	Positive	Positive	12-Mar	13-Mar	
28	Negative	Positive	Negative	Positive	12-Mar	12-Mar	
34	Negative	Negative	Negative	Positive	11-Mar	12-Mar	
38	Negative	Negative	Negative	Positive	12-Mar	12-Mar	
39	Negative	Positive	Positive	Positive	12-Mar	12-Mar	
41	Negative	Positive	Negative	Positive	12-Mar	12-Mar	
42	Negative	Negative	Negative	Positive	12-Mar	13-Mar	
48	Negative	Positive	Negative	Positive	12-Mar	12-Mar	
51	Negative	Negative	Negative	Positive	12-Mar	13-Mar	
54	Negative	Weak Positive	Negative	Positive	12-Mar	13-Mar	
58	Negative	Negative	Negative	Positive	12-Mar	12-Mar	
62	Negative	Positive	Negative	Positive	12-Mar	13-Mar	

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11	1018	1285	1121	2615	940	1722			>1504 (1.6 RMF)	Median Log Channel	No
12	932	1093	925	3390	876	1502			ratio ≥ 1.5 of neg MCF	Median Channel Fluorescence (MCF)	Yes
14	1117	1479	1199.5	2465.5	945	5857.5			1.5x Mean neg value = 1417.5	Median Log Channel	Yes
15	RMF 0.9	0.1	0.9	1.7	2955	7.36			RMF >1.5	RMF	No
19	4.3	5.916	5.312	13.656	3.604	Pos 1 - 36.398 Pos 2 - 14.543				Log Median x	No
20	3.023	5.008	4.494	14.4	2.113	7.521			≥ 40 Linear channel shift	Median Channel Fluorescence	No
23	6.02	8.97	7.14	24.56	5.48	105.5			+2SD	Median Channel Fluorescence	Yes
24	592	1517	1461	5782	982		20835		RR >2.0	MFCN	Yes
25	619	939	778	3613	360	5719			>1.3 RMF	Median Log Channel	No
28	216	277	218	515	130	1020			7.8	MFI	No
34	32.75	27.70	31.25	52.70	25.60	126.0			Median +2SD	Median FLI	No
38	-3.0	22.4	3.2	103.3	0	266.3			≥ 63	Mean Linear Channel Shift	No
39	0.35	0.63	0.72	2.54	0.26	5.69			>2.0 RMF	Median Log Fluorescence	No
41	897	2029	1239	4579	984	13155			Mean neg control +2SD	Median Log Channel	No
42	983	1029	994	1096	1024		1294	1093	Test Sera > Negative control serum in relation to patient clinical history	Mean Linear Channel	No
48	1.7	2.1	1.9	4.4	1.6	8.5			≥ 1.3 RMF		Yes
51	37.50	49.50	32	143	18	346			54		No
54	642; 651; 638	652; 665; 665	647; 638; 623	699; 696; 713	575; 586; 593	843			Test/Negative Ratio ≥ 1.2 = Weak Positive		No
58	6.26	7.68	7.52	21.33	7.45	12.47			Test/Negative Ratio ≥ 1.5 = Positive	Log Median	Yes
62	7.5	8.9	6.9	25.7	3.08	16.95			7.75 RMF >3	Median Log Channel	Yes