

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B01/2014 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 14TH JANUARY 2014

HLA PHENOTYPE OF BLOOD DONOR: HLA-A3, A30; B35, B65; Cw2, Cw4; DR1, DR13; DQ5, DQ6

Summary of Results

Total tested	21	21	20	21
Positive	0	0	9	21
Negative	21	21	11	0
Not Tested	2	2	3	2
% Positive	0.0%	0.0%	45.0%	100.0%
% Negative	100.0%	100.0%	55.0%	0.0%

Consensus    Negative    Negative    Not Assessed    Positive

HLA Antibody Specificity    B12    B12    B5    A3, A11+  
(Defined By CDC)

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
9	Negative	Negative	NT	Positive	15-Jan	16-Jan	Serum 3 - Duplicate not reproducible
11	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
12	Negative	Negative	Negative	Positive	15-Jan	15-Jan	
14	Negative	Negative	Negative	Positive	15-Jan	15-Jan	
15	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
19	Negative	Negative	Negative	Positive	15-Jan	16-Jan	
20	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
23	Negative	Negative	Negative	Positive	15-Jan	15-Jan	
24	Negative	Negative	Negative	Positive	15-Jan	16-Jan	
25	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
28	NT	NT	NT	NT	15-Jan	16-Jan	Technically Unsatisfactory
34	Negative	Negative	Negative	Positive	15-Jan	15-Jan	
35	Negative	Negative	Negative	Positive	15-Jan	16-Jan	
38	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
39	Negative	Negative	Negative	Positive	15-Jan	15-Jan	Positivity detected in serum 4 is unlikely to be due to HLA reactivity
41	Negative	Negative	Negative	Positive	15-Jan	15-Jan	
42	NT	NT	NT	NT	15-Jan	16-Jan	Not tested due to poor cell viability
45	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
48	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
51	Negative	Negative	Negative	Positive	15-Jan	16-Jan	
54	Negative	Negative	Negative	Positive	15-Jan	16-Jan	
58	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
62	Negative	Negative	Positive	Positive	15-Jan	15-Jan	

PLEASE NOTE: THE NEXT DISTRIBUTIONS IS ON 11TH MARCH 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	0.13	0.14	NT	2.64	0.27	19.7			≥1.5 trimmed mean	Mean X (Log)	No
11	40; 48	44; 46	73; 63	150; 148	55; 46; 46; 50	150; 273			≥56.65 mean of neg control +2SD	Median log channel	No
12	124	121.0	157	246	125	183			Ratio ≥1.5 of neg MCF	MCF	Yes
14	188	185	222	296	171	2660			1.5x negative median log channel	Median log channel	Yes
15	0.95	0.93	1.5	2.3	240	38.1			>1.5	RMF	No
19	0.208	0.211	0.261	0.483	0.215	1.99; 1.51				Log median X	No
20	0.35	0.34	0.65	1.16	0.31	0.9			40 linear channel shift	MCF	No
23	3.04	3.14	3.63	4.47	2.91	32.2			+3SD	MCF	Yes
24	194	177	294	1217	200		442		RR >1.5	MFCN	Yes
25	75	73	114	245	72	3178			>1.3 RMF	Median log channel	No
28	NT	NT	NT	NT	93	706			7.6 Ratio>1.5=pos	MFI	No
34	16.1	15	16	25.1	15.8	101			19.3 (Av+2SD)	MFLI	No
35	1.98	1.71	2.40	5.88	1.71	4.53			2.44 median log channel (3SD+mean of neg control)	Median log channel	Yes
38	0	0	66.9	115.6	0	554.8			≥46	Mean linear channel shift	No
39	0.16	0.16	0.22	0.34	0.16	2.27			>1.5 RMF	Median log fluorescence	No
41	243	230	391	1182	243	9205			Mean +2SD	Median log channel	No
42	NT	NT	NT	NT	NT	NT			NT	NT	NT
45	232	232	285	336	217	630			(≥40 channel shift) ≥257 MCV	Median channel value	Yes
48	0.2	0.2	0.3	0.4	0.2	2.4			≥1.3 RMF		Yes
51	5.07	4.96	5.85	8.55	5.48	99.86			7.48 2SD	Median	No
54	322; 317	297; 320	361; 357	432; 425	302; 291; 303; 297; 293; 286	580			Test/Neg ratio≥1.2=Weak pos Test/Neg ratio≥1.5=Pos	Median channel shifts	No
58	1.39	1.36	1.60	1.99	1.32	6.79			1.39 2SD	Log median	Yes
62	0.283	0.266	0.525	1.135	0.308	2.03			RMF>1.5	Median log channel values	Yes

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HLA PHENOTYPE OF BLOOD DONOR: A3, A30; B35, B65; Cw2, Cw4; DR1, DR13; DQ5, DQ6

Summary of Results

Total tested	18	18	18	17
Positive	1	1	15	7
Negative	17	17	3	10
Not Tested	2	2	2	3
% Positive	5.6%	5.6%	83.3%	41.2%
% Negative	94.4%	94.4%	16.7%	58.8%

Consensus    Negative    Negative    Positive    Not Assessed

HLA Antibody Specificity    B12    B12    B5    A3, A11+

(Defined By CDC)

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20	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
23	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
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25	Negative	Negative	Positive	Negative	15-Jan	16-Jan	
28	NT	NT	NT	NT	15-Jan	16-Jan	Technically Unsatisfactory
34	Negative	Negative	Positive	Negative	15-Jan	15-Jan	
38	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
39	Negative	Negative	Negative	Negative	15-Jan	15-Jan	
41	Negative	Negative	Positive	Negative	15-Jan	15-Jan	
42	NT	NT	NT	NT	15-Jan	16-Jan	Not tested due to poor cell viability
48	Negative	Negative	Positive	Negative	15-Jan	15-Jan	
51	Negative	Negative	Positive	NT	15-Jan	16-Jan	Very few B-cells in all but particularly for Serum 4 - therefore unable to interpret result
54	Negative	Negative	Weak Positive	Negative	15-Jan	16-Jan	
58	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
62	Negative	Negative	Positive	Negative	15-Jan	15-Jan	

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11	838; 832	911; 10.7	1177; 599	976; 671	429; 479; 450; 442	888; 2903			≥720 1.6xRMF	Median log channel	No
12	291	305	613	469	318	546			Ratio ≥1.5 of neg MCF	MCF	Yes
14	712	772	1007	811	719	4436			1.5x negative median log channel	Median log channel	Yes
15	0.98	1.03	2.04	1.34	1282	11.3			>1.5	Median	No
19	1.69	1.894	2.113	1.4	1.266	4.85; 15.5				Log median X	No
20	2.91	3.345	7.263	3.64	2.483	6.985			40 linear channel shift	MCF	No
23	5.75	6.47	16.78	10.59	5.74	72.9			+2SD	MCF	Yes
24	904	802	2500	2016	895		7751		RR >2.0	MFCN	Yes
25	443	377	1060	479	450	4246			>1.3 RMF	Median log channel	No
28	NT	NT	NT	NT	202	837			4.1 Ratio>3=pos	MFI	No
34	7.73	8.50	10.42	9.38	8.25	43.6			10.20 (Av+2SD)	MFLI	No
38	-6.5	-25.5	99.4	25.7	0	206.5			≥25	Mean linear channel shift	No
39	0.86	0.74	1.70	0.70	0.93	7.02			>2.0 RMF	Median log fluorescence	No
41	1093	1049	2523	1820	1168	21032			Mean +2SD	Median log channel	No
42	NT	NT	NT	NT	NT	NT			NT	NT	NT
48	0.6	0.6	1.3	0.7	0.8	5.5			≥1.3 RMF		Yes
51	14.79	20.17	25.6	NT	13.8	130			23.9		No
54	576; 580; 591	571; 574; 562	600; 602; 607	583; 573; 580	536; 505; 535; 510; 528; 513	767			Test/Neg ratio≥1.2=Weak pos		No
58	2.69	2.80	6.17	3.37	2.81	6.93			Test/Neg ratio≥1.5=Pos		
62	1.915	1.79	5.57	2.135	1.28	18.9			3.10 2SD	Log median	Yes
									RMF>3.0	Median log channel values	Yes