

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B04/2014 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 11TH MARCH 2014

HLA PHENOTYPE OF BLOOD DONOR: HLA-A3, A31; B7, B60; Cw7, Cw10; DR1, DR4; DQ7, DQ8

**Summary of Results**

Total tested	23	22	23	23
Positive	10	2	0	0
Negative	13	20	23	23
Not Tested	0	1	0	0
% Positive	43.5%	9.1%	0.0%	0.0%
% Negative	56.5%	90.9%	100.0%	100.0%

**Consensus**      **Not Assessed**      **Negative**      **Negative**      **Negative**

HLA Antibody (Defined By CDC)      B57      A2, A28      B8      B12

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
9	Positive	NT	Negative	Negative	12-Mar	13-Mar	Serum 2 - Duplicate not reproducible
11	Negative	Negative	Negative	Negative	12-Mar	13-Mar	
12	Negative	Negative	Negative	Negative	12-Mar	12-Mar	
14	Negative	Negative	Negative	Negative	12-Mar	12-Mar	
15	Negative	Negative	Negative	Negative	12-Mar	12-Mar	
19	Positive	Negative	Negative	Negative	12-Mar	13-Mar	
20	Positive	Negative	Negative	Negative	12-Mar	13-Mar	
23	Positive	Positive	Negative	Negative	12-Mar	12-Mar	
24	Negative	Negative	Negative	Negative	12-Mar	13-Mar	
25	Positive	Negative	Negative	Negative	12-Mar	13-Mar	
28	Negative	Negative	Negative	Negative	12-Mar	12-Mar	
34	Negative	Negative	Negative	Negative	11-Mar	12-Mar	
35	Positive	Negative	Negative	Negative	12-Mar	13-Mar	
38	Negative	Negative	Negative	Negative	12-Mar	12-Mar	
39	Negative	Negative	Negative	Negative	12-Mar	12-Mar	
41	Negative	Negative	Negative	Negative	12-Mar	12-Mar	
42	Weak Positive	Negative	Negative	Negative	12-Mar	13-Mar	
45	Positive	Positive	Negative	Negative	12-Mar	13-Mar	
48	Negative	Negative	Negative	Negative	12-Mar	12-Mar	
51	Positive	Negative	Negative	Negative	12-Mar	13-Mar	
54	Weak Positive	Negative	Negative	Negative	12-Mar	13-Mar	
58	Negative	Negative	Negative	Negative	12-Mar	12-Mar	
62	Negative	Negative	Negative	Negative	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	1.04	NT	0.14	0.13	0.15	6.74			≥1.5 Trimmed Median	Mean x (log)	No
11	75	59	56	56	61	158			>74 (2SD)	Median Log Channel	No
12	209	201	143	151	152	208			ratio ≥1.5 of neg MCF	Median Channel Fluorescence (MCF)	Yes
14	283.5	260	231.5	239.5	219.5	1840.5			1.5x Mean neg value = 329.25	Median Log Channel	Yes
15	RMF 1.3	1.3	0.9	0.8	254	46.39			RMF >1.5	RMF	No
19	0.581	0.422	0.424	0.404	0.458	Pos 1 - 6.832 Pos 2 - 9.275				Log Median x	No
20	0.434	0.347	0.334	0.31	0.265	0.636			≥40 Linear channel shift	Median Channel Fluorescence	No
23	5.38	5.31	3.58	4.09	3.43	35.23			+3SD	Median Channel Fluorescence	Yes
24	199	187	184	153	211		2169		RR >1.5	MFCN	Yes
25	148	105	82	84	84	2196			>1.3 RMF	Median Log Channel	No
28	87	90	99	77	86	909			ratio = 10.6 (ratio above 1.5 is pos)	Median Fluorescent Intensity (MFI)	No
34	7.54	6.36	6.57	6.29	6.59	43.2			Median +2SD	Median FLI	No
35	2.79	1.89	1.59	1.65	1.64	5.24			2.39 (3SD+Mean of neg control)	Median Log Channel	Yes
38	44.4	0	0	-22.5	0	513.4			≥45	Mean Linear Channel Shift	No
39	0.18	0.15	0.14	0.13	0.16	0.52			>1.5 RMF	Median Log Fluorescence	No
41	268	238.7	205	185	185	1529.6			Mean +2SD	Median Log Channel	No
42	799	770	764	766	766		1248	853	Test Sera > Negative control serum in relation to patient clinical history	Mean Linear Channel	No
45	269	266	222	218	226	621			≥266 (≥40 channel shift)	Median Channel Value	Yes
48	0.2	0.3	0.3	0.3	0.3	1.2			≥1.3 RMF		Yes
51	5.3	4.5	4.4	4	3.79	8.2			4.89		No
54	347; 356	324; 330	289; 292	283; 284	286; 289; 295	494			Test/Negative Ratio ≥ 1.2 = Weak Positive Test/Negative Ratio ≥ 1.5 = Positive		No
58	1.49	1.2	1.31	1.32	1.4	7.27			1.53	Log Median	Yes
62	0.55	0.37	0.37	0.34	0.59	2.22			RMF >1.5	Median Log Channel	Yes

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**Summary of Results**

Total tested	20	20	20	20
Positive	6	19	1	1
Negative	14	1	19	19
Not Tested	0	0	0	0
% Positive	30.0%	95.0%	5.0%	5.0%
% Negative	70.0%	5.0%	95.0%	95.0%

<b>Consensus</b>	<b>Not Assessed</b>	<b>Positive</b>	<b>Negative</b>	<b>Negative</b>
HLA Antibody (Defined By CDC)	B57	A2, A28	B8	B12

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
11	Negative	Positive	Negative	Negative	12-Mar	13-Mar	
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11	553	1375	489	448	477	824			>763 (1.6 RMF)	Median Log Channel	No
12	762	2044	469	567	663	1081			ratio $\geq 1.5$ of neg MCF	Median Channel Fluorescence (MCF)	Yes
14	1038	1707	808	873	869.5	7054			1.5x Mean neg value = 1304.25	Median Log Channel	Yes
15	RMF 0.95	1.8	0.8	0.8	2356	9.8			RMF >1.5	RMF	No
19	4.497	8.749	3.607	3.529	3.302				Pos 1 - 34.486 Pos 2 - 19.393	Log Median x	No
20	4.36	10.726	3.364	3.13	3.183	4.77			$\geq 40$ Linear channel shift	Median Channel Fluorescence	No
23	7.64	16.16	4.89	5.35	6.2	85			+2SD	Median Channel Fluorescence	Yes
24	578	3263	717	362	1058		8721		RR >2.0	MFCN	Yes
25	846	2746	522	558	646	6112			>1.3 RMF	Median Log Channel	No
28	219	400	186	170	140	1094			ratio = 7.8 (ratio above 1.9 is pos)	MFI	No
34	39.45	67.35	37.1	38.1	29.1	153			Median +2SD	Median FLI	No
38	-14.9	35.2	-46.9	-39.4	0	264.3			$\geq 63$	Mean Linear Channel Shift	No
39	0.5	1.22	0.31	0.28	0.56	4.61			>2.0 RMF	Median Log Fluorescence	No
41	798.7	2714	621.7	449	609.5	3876			Mean +2SD	Median Log Channel	No
42	972	1016	902	943	975		1361	1061	Test Sera > Negative control serum in relation to patient clinical history	Mean Linear Channel	No
48	0.5	0.7	0.6	0.4	0.4	3			$\geq 1.3$ RMF		Yes
51	21.67	34.9	12.8	12.67	12.19	42.17			13.65		No
54	588; 626; 609	645; 651; 635	599; 596; 591	599; 592; 467	550; 542; 543	734			Test/Negative Ratio $\geq 1.2$ = Weak Positive		No
58	7.87	16.1	7.21	5.37	7.89	14.45			Test/Negative Ratio $\geq 1.5$ = Positive		No
62	2.02	7.18	1.52	1.2	1.56	2.67			10	Log Median	Yes
									RMF >3	Median Log Channel	Yes