

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B02/2014 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 14TH JANUARY 2014

HLA PHENOTYPE OF BLOOD DONOR: A1, A11; B35, B39; Cw4, Cw5; DR7, DR8, DQ4, DQ9

**Summary of Results**

Total tested	23	23	23	22
Positive	1	1	23	19
Negative	22	22	0	3
Not Tested	0	0	0	1
% Positive	4.3%	4.3%	100.0%	86.4%
% Negative	95.7%	95.7%	0.0%	13.6%

<b>Consensus</b>	<b>Negative</b>	<b>Negative</b>	<b>Positive</b>	<b>Positive</b>
HLA Antibody (Defined By CDC)	B12	B12	A3, A11+	B5

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
9	Negative	Negative	Positive	NT	15-Jan	16-Jan	Serum 4 - Duplicate not reproducible
11	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
12	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
14	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
15	Negative	Negative	Positive	Negative	15-Jan	15-Jan	
19	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
20	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
23	Negative	Negative	Positive	Wk Positive	15-Jan	15-Jan	
24	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
25	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
28	Wk Positive	Wk Positive	Wk Positive	Wk Positive	15-Jan	16-Jan	
34	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
35	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
38	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
39	Negative	Negative	Positive	Negative	15-Jan	15-Jan	
41	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
42	Negative	Negative	Wk Positive	Negative	15-Jan	16-Jan	
45	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
48	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
51	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
54	Negative	Negative	Positive	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	0.17	0.21	2.34	NT	0.3	9.05			≥ 1.5 trimmed mean	Mean x (log)	No
11	56; 56	60; 59	197; 218	97; 100	56; 56; 59	193, 506			≥ 59.83 mean + 2SD	Median Log Channel	No
12	133	146	357	242	155	219			Ratio ≥ 1.5 of neg MCF	Median Channel Fluorescence (MCF)	Yes
14	184	191	383	247	160	5916			1.5 x negative	Median Log Channel	Yes
15	0.95 517.5	0.22 500.5	2.12 1153	1.26 687	1.26 543.5	18200.5			RMF ≥ 1.5	RMF Median	No
19	0.22	0.232	0.584	0.325	0.22	1.43; 1.99				Log Median x	No
20	0.396	0.446	1.728	0.822	0.349	1.485			40 Linear Channel Shift	Median Channel Fluorescence	No
23	3.4	2.33	10.7	6.07	3.49	27.38			+ 3SD	Median Channel Fluorescence	Yes
24	186	170	714	368	191	2099			RR > 1.5	MFCN	Yes
25	81	86	341	171	79	3806			> 1.3 RMF	Median Log Channel	No
28	300	262	379	339	124	2087			Ratio above 1.5 is positive	Median Fluorescent Intensity (MFI)	No
34	9.5	9.3	19.5	12.1	9.3	92.8			10.7 (av + 2SD)	Median FLI	No
35	2.18	2.35	9.47	4.41	2.16	13			3.65 (3SD + mean of neg controls)	Median Log Channel	Yes
38	0	0	182.5	99.6	0	455.8			≥ 46	Mean Linear Channel Shift	No
39	0.19	0.2	0.49	0.28	0.19	6.87			> 1.5 RMF	Median Log Fluorescence	No
41	231	244	931	449	224	8400			Mean + 2SD	Median Log Channel	No
42	791	790	848	806	793		1304	897	Test Sera > Negative control serum in relation to patient clinical history	Mean Linear Channel	No
45	231	238	317	269	218	669			≥ 258 MCV (≥40 Channel Shift)	Median Channel Value	Yes
48	0.3	0.3	0.6	0.4	0.3	6.4			≥ 1.3 RMF		Yes
51	5.8	5.8	12.7	8.3	6.1	96.5			8.1		No
54	283; 294; 256	277; 289; 273	466; 456; 390	380; 370; 350	271; 257; 262; 252; 258; 249	715			Test/Negative Ratio ≥ 1.2 = Weak Positive	Median Channel Shifts (MCS)	No
58	1.21	1.27	2.86	1.74	1.36	7.36			Test/Negative Ratio ≥ 1.5 = Positive		
62	0.374	0.411	1.59	0.795	0.348	1.835			1.42 (2SD) RMF > 1.5	Log Median Median Log Channel Values	Yes Yes

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DESPATCHED ON 14TH JANUARY 2014

HLA PHENOTYPE OF BLOOD DONOR: A1, A11; B35, B39; Cw4, Cw5; DR7, DR8, DQ4, DQ9

**Summary of Results**

Total tested	20	20	20	20
Positive	2	0	19	18
Negative	18	20	1	2
Not Tested	0	0	0	0
% Positive	10.0%	0.0%	95.0%	90.0%
% Negative	90.0%	100.0%	5.0%	10.0%

**Consensus      Negative      Negative      Positive      Positive**

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

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
11	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
12	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
14	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
15	Negative	Negative	Negative	Negative	15-Jan	15-Jan	
19	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
20	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
23	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
24	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
25	Negative	Negative	Positive	Positive	15-Jan	16-Jan	
28	Wk Positive	Negative	Wk Positive	Wk Positive	15-Jan	16-Jan	
34	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
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42	Negative	Negative	Wk Positive	Negative	15-Jan	16-Jan	
48	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
51	Positive	Negative	Positive	Positive	15-Jan	16-Jan	
54	Negative	Negative	Wk Positive	Wk Positive	15-Jan	16-Jan	
58	Negative	Negative	Positive	Positive	15-Jan	15-Jan	
62	Negative	Negative	Positive	Positive	15-Jan	15-Jan	

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11	1154; 1093	1067; 1170	1541; 1558	1653; 1564	651; 829; 836; 797	1734; 3279			≥ 1245.02 (1.6 RMF)	Median Log Channel	No
12	367	423	1293	1520	668	1232			Ratio ≥ 1.5 of neg MCF	Median Channel Fluorescence (MCF)	Yes
14	1323	1282	1723	1738	1147	13243			1.5 x negative	Median Log Channel	Yes
15	0.83	0.76	1.27	1.37					RMF ≥ 1.5	RMF	No
	3238	2963.5	4965.5	5377	3919.5	35854.5				Median	
19	2.431	1.793	3.168	3.358	1.975	5.12; 15.8				Log Median x	No
20	7.005	6.258	9.235	11.625	5.328	11.7			40 Linear Channel Shift	Median Channel Fluorescence	No
23	6.48	6.32	17.61	11.04	6.29	105.5			+ 2SD	Median Channel Fluorescence	Yes
24	1014	677	2471	3082	1214	15281			RR > 2.0	MFCN	Yes
25	764	780	1469	1715	849	5676			> 1.3 RMF	Median Log Channel	No
28	984	709	1077	1291	430	3498			Ratio above 3 is positive	MFI	No
34	8.71	8.05	10.75	10.67	7.83	34.8			9.86 (av + 2SD)	Median FLI	No
38	-28.4	-18.5	78.5	83.9	0	267.6			≥ 63	Mean Linear Channel Shift	No
39	1.44	1.39	2.19	2.39	0.97	17.1			> 2.0 RMF	Median Log Fluorescence	No
41	2106	1948	3823	4239	2063	27597			Mean + 2SD	Median Log Channel	No
42	919	898	971	921	919		495	170	Test Sera > Negative control serum in relation to patient clinical history	Mean Linear Channel	No
48	1.4	1.7	2.3	3	1.4	9.9			≥ 1.3 RMF		Yes
51	48.3	22.9	43.9	40.7	24.1	172			34.1		No
54	602; 592; 588	582; 545; 570	626; 636; 630	626; 635; 633	565; 549; 555; 505; 504; 512	799			Test/Negative Ratio ≥ 1.2 = Weak Positive	MCS	No
									Test/Negative Ratio ≥ 1.5 = Positive		
58	4.95	4.85	9.99	9.93	4.66	12			6.0 (2SD)	Log Median	Yes
62	3.605	3.76	7.505	8.935	1.803	6.571			RMF > 3.0	Median Log Channel Values	Yes