

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B02/2015 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 06TH JANUARY 2015

HLA PHENOTYPE OF BLOOD DONOR: A2,29; B35,B44; Cw10,Cw16; DR1,DR7; DQ2,DQ5

Summary of Results											
T-cells					B-cells						
Total tested	22	23	22	23	20	18	20	20			
Positive	2	1	14	1	14	10	18	0			
Negative	20	22	8	22	6	8	2	20			
NT/Equivocal	1	0	1	0	0	2	0	0			
% Positive	9.1%	4.3%	63.6%	4.3%	70.0%	55.6%	90.0%	0.0%			
% Negative	90.9%	95.7%	36.4%	95.7%	30.0%	44.4%	10.0%	100.0%			
Consensus	Negative	Negative	Not Assessed	Negative	Not Assessed	Not Assessed	Positive	Negative			
HLA Antibody Specificity (Defined By CDC)	B7	DR3	A3,A11,DR7	B12	B7	DR3	A3,A11,DR7	B12			
T-cells					B-cells						
Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
9	NT	Negative	Positive	Negative					07-Jan	08-Jan	Serum 1 - NT due to poor cell duplicates
11	Positive	Negative	Positive	Negative	Positive	Equivocal	Positive	Negative	07-Jan	08-Jan	
12	Negative	Negative	Positive	Negative	Positive	Positive	Positive	Negative	07-Jan	07-Jan	
14	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative	07-Jan	07-Jan	
15	Negative	Negative	Positive	Negative	Positive	Positive	Positive	Negative	07-Jan	07-Jan	
19	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	07-Jan	09-Jan	
20	Negative	Negative	Positive	Negative	Positive	Positive	Positive	Negative	08-Jan	09-Jan	
23	Negative	Negative	Weak Positive	Negative	Positive	Positive	Positive	Negative	07-Jan	07-Jan	
24	Negative	Negative	Positive	Negative	Positive	Positive	Positive	Negative	07-Jan	08-Jan	
25	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	07-Jan	07-Jan	
28	Negative	Weak Positive	Weak Positive	Negative	Negative	Negative	Weak Positive	Negative	07-Jan	07-Jan	
34	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative	07-Jan	07-Jan	
35	Negative	Negative	Equivocal	Negative					07-Jan	08-Jan	
38	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	07-Jan	08-Jan	
39	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	08-Jan	08-Jan	
41	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	07-Jan	07-Jan	
42	Negative	Negative	Weak Positive	Negative	Negative	Negative	Weak Positive	Negative	07-Jan	08-Jan	
45	Negative	Negative	Positive	Negative					08-Jan	09-Jan	
48	Negative	Negative	Positive	Negative	Positive	Positive	Positive	Negative	07-Jan	07-Jan	
51	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative	07-Jan	08-Jan	Poor cell quality. This result would not have been accepted clinically. Would have repeated cell isolations which is not possible for these samples
54	Negative	Negative	Positive	Negative	Negative	Negative	Positive	Negative	07-Jan	08-Jan	
58	Positive	Negative	Positive	Positive	Positive	Equivocal	Positive	Negative	07-Jan	07-Jan	
62	Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	07-Jan	07-Jan	

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T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B02/2015 (COMPARED TO LOCAL NEGATIVE CONTROL)

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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	NT	0.70	3.12	0.849	1.51	62.41			>1.5 xTrimmed mean	Mean X (Log)	No
11	60	48	76	57	53	104			>58 (Mean AB +2SD)	Median log channel	No
12	72	63.0	92	67	65	215			Ratio ≥ 1.5 of Neg MCF	MCF	Yes
14	368	332	388.5	302	261.5	1381			1.5x Neg Median log channel	Median log channel	Yes
15	1.30	1	1.87	1.14	174	47.41			>1.5	RMF	No
19	0.481	0.367	0.466	0.424	0.396	6.531				Log MDX	No
20	0.349	0.303	0.433	0.337	0.286	0.915			40 linear channel shift	MCF	No
23	5.39	3.76	6	5.1	4.23	59.8			+3SD	MCF	Yes
24	307	243	405	225	213		9533	1053	RR >1.5	MFCN	Yes
25	83	59	111	79	213	4893			>1.3 RMF	Median log channel	Yes
28	90.5	115.5	108.4	89.7	64	469.25			7.3 (≥ 1.6 considered pos)	MFI	No
34	3.54	2.75	3.56	3.5	4.76	11.5			+2SD of Neg control	Median FLI	No
35	2.33	1.54	3.10	2.20	1.88	3.47			2.79 Mean +3SD +clinical cut-off 0.5 (=3.29)	Median log channel	Yes
38	20.5	-13.1	19	9.4	0	360.9			46 Linear channel shift	Linear channel shift	No
39	0.16	0.15	0.16	0.15	0.16	1.68			>1.5 RMF	Median log fluorescence	Yes
41	200	175	235	185	194.0	6041			≥ 1.5 RMF	Median log channel	No
42	192	146	228	161	162		5233	242	RMF ratio >1.3	Median log channel	No
45	173	175	217	173	176	584			≥ 216 MCV (≥ 40 channel shift)	Median channel value	Yes
48	0.44	0.39	0.74	0.42	0.44	9.09			≥ 1.3 RMF	Median log channel	Yes
51	3.77	3.28	3.78	3.26	3.22	128			5.2		No
54	305, 295	243, 252	356, 350	300, 304	238, 236, 251	787			Test/Neg MESF ratio ≥ 1.2 = Pos	Median channel shifts	No
58	1.62	1.33	1.69	1.56	1.40	8.87			1.47 2SD	Log mean	Yes
62	0.56	0.47	0.78	0.54	0.43	3.79			RMF > 1.5	Median log channel	Yes

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B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B02/2015 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 06TH JANUARY 2015

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?
11	702	770	854	391	438	577			>700 (1.6RMF)	Median log channel	No
12	339	308	474	177	166	636			Ratio ≥ 1.5 of Neg MCF	MCF	Yes
14	2315.5	2361	2380	1454.5	1474	6231			1.5x Neg Median log channel	Median log channel	Yes
15	1.5	1.5	1.71	0.93	1704	10			>1.5	RMF	No
19	4.8	4.149	5.481	2.6	3.254	10.24				Log MDX	No
20	5.43	5.63	7.21	2.97	2.535	6.345			40 Linear channel shift	MCF	No
23	40.8	28.9	53.3	18.1	17.1	122.9			+2SD	MCF	Yes
24	1280	1201	3501	344	708		26888	1864	RR >1.5	MFCN	Yes
25	973	1197	1525	876	1301	8590			>1.3 RMF	Median log channel	Yes
28	258.8	266.6	329.7	143.8	151.7	606.1			4.0 (≥ 2 considered positive)	MFI	No
34	25.6	25.6	38.4	17.6	18.3	71			+2SD of Neg control	Median FLI	No
38	54.0	29.6	56	-12.6	0	208.6			35 Linear channel shift	Linear channel shift	No
39	0.44	0.29	0.48	0.20	0.35	5.41			>2.0 RMF	Median log fluorescece	Yes
41	960	898	1159	425	522.0	7846			≥ 1.5 RMF	Median log channel	No
42	1286	1121	1457	593	945		16526	1448	RMF ratio >1.5	Median log channel	No
48	3.33	3.66	3.86	1.69	2.06	17.68			≥ 1.3 RMF	Median log channel	Yes
51	22.5	19.8	21.1	8.1	8.1	218			13.2		No
54	619, 634, 614	619, 613, 620	627, 634, 646	517, 584, 570	595, 607	866			Test/Neg MESF ratio ≥ 1.2 = Pos	Median channel shifts	No
58	7.96	5.68	9.59	4.84	4.75	13.4			5.25 2SD	Log mean	Yes
62	6.12	5.76	9.08	2.71	2	41.3			RMF >3.0	Median log channel	Yes

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