

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B01/2015 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 06TH JANUARY 2015

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2,-; B27,B62; Cw2,Cw10; DR7,DR12; DQ2,DQ7

Summary of Results											
T-cells					B-cells						
Total tested	20	23	23	22	19	20	20	18			
Positive	7	0	5	0	10	0	20	9			
Negative	13	23	18	22	9	20	0	9			
NT/Equivocal	3	0	0	1	1	0	0	2			
% Positive	35.0%	0.0%	21.7%	0.0%	52.6%	0.0%	100.0%	50.0%			
% Negative	65.0%	100.0%	78.3%	100.0%	47.4%	100.0%	0.0%	50.0%			
Consensus	Not Assessed	Negative	Negative	Negative	Not Assessed	Negative	Positive	Not Assessed			
HLA Antibody Specificity (Defined By CDC)	B7	B12	A3,A11,DR7	DR3	B7	B12	A3,A11,DR7	DR3			
Summary of Results											
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	Negative	Negative					07-Jan	08-Jan	Serum 1 - NT due to poor cell duplicates
11	Positive	Negative	Positive	Negative	Equivocal	Negative	Positive	Negative	07-Jan	08-Jan	
12	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Positive	07-Jan	07-Jan	
14	Positive	Negative	Negative	Negative	Negative	Negative	Positive	Negative	07-Jan	07-Jan	
15	Negative	Negative	Positive	Negative	Negative	Negative	Positive	Positive	07-Jan	07-Jan	
19	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	07-Jan	09-Jan	
20	Negative	Negative	Positive	Negative	Positive	Negative	Positive	Positive	08-Jan	09-Jan	
23	Weak Positive	Negative	Negative	Negative	Weak Positive	Negative	Positive	Weak Positive	07-Jan	07-Jan	
24	Positive	Negative	Negative	Negative	Positive	Negative	Positive	Positive	07-Jan	08-Jan	
25	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	07-Jan	07-Jan	
28	Negative	Negative	Weak Positive	Equivocal	Negative	Negative	Weak Positive	Negative	07-Jan	07-Jan	
34	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	07-Jan	07-Jan	
35	Equivocal	Negative	Negative	Negative					07-Jan	08-Jan	
38	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Positive	07-Jan	08-Jan	
39	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	08-Jan	08-Jan	
41	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Positive	07-Jan	07-Jan	
42	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Weak Positive	07-Jan	08-Jan	
45	Negative	Negative	Negative	Negative					08-Jan	09-Jan	
48	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Positive	07-Jan	07-Jan	
51	Equivocal	Negative	Negative	Negative	Positive	Negative	Positive	Equivocal	07-Jan	08-Jan	Poor cell quality
54	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	07-Jan	08-Jan	
58	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Equivocal	07-Jan	07-Jan	
62	Positive	Negative	Negative	Negative	Positive	Negative	Positive	Negative	07-Jan	07-Jan	

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T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B01/2015 (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?
9	NT	0.61	1.067	0.467	1.46	38.56			>1.5 xTrimmed mean	Mean X (Log)	No
11	59	38	56	42	45	107			>49 (Mean AB +2SD)	Median log channel	No
12	64	56.0	68	60	56	111			Ratio ≥ 1.5 of Neg MCF	MCF	Yes
14	361	268.5	308	272.5	234.5	1776			1.5x Neg Median log channel	Median log channel	Yes
15	1.4	0.9	1.5	0.9	181	81			>1.5	RMF	No
19	0.531	0.346	0.442	0.348	0.386	12.369				Log MDX	No
20	0.312	0.278	0.418	0.288	0.263	0.684			40 linear channel shift	MCF	No
23	4.8	4.1	4.7	4.2	3.86	42.2			+3SD	MCF	Yes
24	368	228	297	217	227		6806	948	RR >1.5	MFCN	Yes
25	120	92	104	56	162	4107			>1.3 RMF	Median log channel	Yes
28	89	71	142	27	69	563			8.2 (≥ 1.6 considered pos)	MFI	No
34	4.15	3.47	3.84	3.23	5.10	7.50			+2SD of Neg control	Median FLI	No
35	2.79	1.85	2.22	1.58	1.67	7.01			2.31 MLC +3SD +clinical cut-off 0.5 (=2.81)	Median log channel	Yes
38	16.4	-4.5	33.6	-1.1	0	370.5			46 Linear channel shift	Linear channel shift	No
39	0.18	0.16	0.16	0.15	0.16	1.48			>1.5 RMF	Median log fluorescence	Yes
41	220	178	203	173	186.7	4319			≥ 1.5 RMF	Median log channel	No
42	191	146	199	147	156		6568	309	RMF ratio >1.3	Median log channel	No
45	197	179	171	165	188	549			≥ 228 MCV (≥ 40 channel shift)	Median channel value	Yes
48	0.45	0.42	0.52	0.41	0.42	6.96			≥ 1.3 RMF	Median log channel	Yes
51	4.27	2.69	3.26	2.57	2.95	223			4.9		No
54	282, 290	213, 215	283, 282	202, 218	227, 237, 218	778			Test/Neg MESF ratio ≥ 1.2 = Pos	Median channel shifts	No
58	1.74	1.43	1.59	1.43	1.33	6.38			1.38 2SD	Log mean	Yes
62	0.62	0.44	0.59	0.37	0.415	3.69			RMF > 1.5	Median log channel	Yes

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B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B01/2015 (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	924	741	1451	1031	679	977			>1086 (1.6RMF)	Median log channel	No
12	178	125	390	334	102	454			Ratio ≥ 1.5 of Neg MCF	MCF	Yes
14	2670.5	1967.5	3139	2655	1959.5	9000			1.5x Neg Median log channel	Median log channel	Yes
15	1.2	1.1	2.1	1.6	1833	18			>1.5	RMF	No
19	6.780	5.474	10.159	5.890	4.884	28.295				Log MDX	No
20	4.685	2.730	7.765	5.608	2.368	5.460			40 Linear channel shift	MCF	No
23	11.08	7.54	19.1	10.4	9.6	126.9			+2SD	MCF	Yes
24	2371	1599	3991	1964	1552		44163	3358	RR >1.5	MFCN	Yes
25	1360	1102	1938	1166	1345	9802			>1.3 RMF	Median log channel	Yes
28	231	109	395	121	159	835			5.3 (≥ 2 is positive)	MFI	No
34	31.8	24.6	43.4	29.8	32.9	80			+2SD of Neg control	Median FLI	No
38	32.7	28.3	147.7	42.3	0	298.6			35 Linear channel shift	Linear channel shift	No
39	0.64	0.38	0.84	0.50	0.31	6.31			>2.0 RMF	Median log fluorescece	Yes
41	805	484	1032	711	461.7	5843			≥ 1.5 RMF	Median log channel	No
42	905	658	1966	1173	752		24185	2130	RMF ratio >1.5	Median log channel	No
48	2.10	1.29	3.37	2.56	1.76	17.80			≥ 1.3 RMF	Median log channel	Yes
51	23.6	7.4	33.5	16.5	8.6	405			19.7		No
54	671, 674, 667	659, 673, 677	687, 698, 695	685, 675, 681	680, 683	894			Test/Neg MESF ratio $\geq 1.2 =$ Pos	Median channel shifts	No
58	11	6.47	14.6	7.84	5.96	28.8			6.62 2SD	Log mean	Yes
62	7.85	4.38	13.3	1.98	2.9	57.8			RMF >3.0	Median log channel	Yes

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