

UK NEQAS for H&I Scheme 2B - Crossmatching by Flow Cytometry

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B04/2016 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 15TH MARCH 2016

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A3; B7, B35; Cw6, Cw7; DR103, DR13; DQ5, DQ7

		Summary of Results										
		T-cells				B-cells						
Total tested		21	21	23	23	18	18	18	19			
Positive		13	20	23	1	0	17	17	18			
Negative		8	1	0	22	18	1	1	1			
NT/Equivocal		2	2	0	0	2	2	2	1			
% Positive		61.9%	95.2%	100.0%	4.3%	0.0%	94.4%	94.4%	94.7%			
% Negative		38.1%	4.8%	0.0%	95.7%	100.0%	5.6%	5.6%	5.3%			
Consensus		Not Assessed	Positive	Positive	Negative	Negative	Positive	Positive	Positive			
HLA Antibody Specificity (Defined By CDC)		A30, A31	A1	B15,B57	DR7, DQ2	A30, A31	A1	B15,B57	DR7, DQ2			
		T-cells				B-cells				Date Received	Date Tested	Comments
Lab No.		Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4			
9		Positive	Positive	Positive	Negative					16-Mar	17-Mar	
11		Positive	Positive	Positive	Positive	Negative	Positive	Positive	Positive	14-Mar	17-Mar	
12		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	16-Mar	
14		Positive	Positive	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	16-Mar	
15		Positive	Positive	Positive	Negative	Negative	Negative	Negative	Positive	16-Mar	16-Mar	
19		Positive	Positive	Positive	Negative	Negative	Positive	Equivocal	Positive	16-Mar	17-Mar	
20		Positive	Positive	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	16-Mar	
23		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	16-Mar	
24		Negative	Equivocal	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	17-Mar	
25		Positive	Positive	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	17-Mar	
28		Equivocal	Equivocal	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	16-Mar	
34		Negative	Negative	Positive	Negative	NT	NT	NT	NT	16-Mar	16-Mar	Too few B-cells
35		Negative	Positive	Positive	Negative						17-Mar	
38		Positive	Positive	Positive	Negative	Negative	Positive	Positive	Negative	16-Mar	16-Mar	
39		Negative	Positive	Positive	Negative	Negative	Equivocal	Positive	Positive	16-Mar	16-Mar	
41		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	16-Mar	
42		Weak Positive	Positive	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	17-Mar	
45		Positive	Positive	Positive	Negative					16-Mar	16-Mar	
48		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	16-Mar	
51		Positive	Positive	Positive	Negative	Equivocal	Positive	Positive	Positive	16-Mar	17-Mar	
54		Positive	Positive	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	17-Mar	
58		Equivocal	Positive	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	16-Mar	
62		Positive	Positive	Positive	Negative	Negative	Positive	Positive	Positive	16-Mar	16-Mar	

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T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B04/2016 (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	Viability (%)
9	1.6	1.9	8.8	0.5	1.02	3.3			>1.5 trimmed mean	Median x (log)	95
11	92	134	384	94.5	69.75	153			75.47	Median log channel	90
12	131	231	402	121	99	1685			2SD	MCF	95
14					580.5	4269			1.5x mean neg	Median log channel	
15	381.5	881	1119.5	231.5	194.5	12376					
	RMF 1.96	4.5	5.8	1.2					RMF >1.5	Median	100
19	0.376	0.569	1.151	0.254	0.241	7.748				Log median x	
20	0.756	1.369	3.319	0.453	0.409	1.442			40 linear channel shift	MCF	
23	4.17	4.64	7.21	4.32	4	28.9			3SD	MCF	>90
24	202	222	393	162	171	775, 253			1.5x neg	MFCN	90
25	124	236	486	71	67	6186			RMF >1.3	Median log channel	
28	88	124	152	54	42	754			≥1.6-3 (equivocal), >3.1 (pos)	MFI	
	Ratio 2.1	3	3.6	1.3							
34	10.5	10.9	19.7	5.7	9.3	68.5			2SD 12.5	Median FLI	85
35	1.74	3.35	7.91	1.67	2.18		44.07	4.45	Mean +3SD	MFI	>90
38	66.9	199	244.3	32	0	531			46 linear channel shift	Linear channel shift	
39	0.18	0.23	0.6	0.12	0.15	2.91			>1.5 RMF	Median log fluorescence	
41	291	647	987	240	291	7587			RMF ≥1.5	Median log channel	95
42	166	380	547	134	112		25629	504	RMF ratio >1.3	Median log channel	95
45	253	317	364.5	221.5	204	663			40 channel shift (244)	Median channel value	
48	0.71	1	1.44	0.6	0.62	4.69			>1.3 RMF	Median log channel	
51	7.67	12.03	18.34	4.5	4.57	25.25			7.1		90
54	374, 370	464, 474	496, 522	281, 280	246, 274, 275, 271	871			Weak pos ≥1.2, Pos ≥1.5	Median channel shift	
58	1.37	1.63	3.21	1.07	0.99	7.28			1.3x Neg mean	Log median	
62	0.7	1.275	2.66	0.428	0.46	8.7			RMF >1.5	Median log channel	98

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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	Viability (%)
11	555	956	996	1755	578	3014			924.80	Median log channel	90
12	222	535	786	931	197	3710			2SD	MCF	95
14					2649.5	9804.5			1.5x mean neg	Median log channel	
15	684.5 RMF 0.78	1262 1.4	1306 1.49	1557 1.8	877.5	16625.5			RMF >1.5	Median	100
19	1.896	4.046	3.5	6.502	2.201	37.732				Log median x	
20	1.805	7.01	6.601	14.368	1.889	6.533			40 linear hannel shift	MCF	
23	7.17	14.6	17.4	31.86	12.17	105.5			2SD	MCF	>90
24	296	665	469	790	293	1522, 295			2x neg	MFCN	90
25	442	885	940	1544	639	12294			RMF >1.3	Median log channel	
28	75 Ratio 1.9	181 4.6	151 3.9	208 5.3	39	821			≥2-3.5 (equivocal), >3.6 (pos)	MFI	
34	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	85
38	-23.6	84.8	74.6	25.4	0	379.4			63 linear channel shift	Linear channel shift	
39	0.36	0.82	0.86	1.69	0.41	6.14			>2 RMF	Median log fluorescence	
41	408	1422	1558	1552	594	10681			RMF ≥1.5	Median log channel	95
42	416	945	1006	1062	452		55809	2527	RMF ratio >1.5	Median log channel	95
48	0.84	1.9	2.33	4.36	0.97	12.04			>1.3 RMF	Median log channel	
51	13.16	24.16	27.88	16.63	8.86	40.32			13.9		90
54	492, 495, 514	581, 587, 576	583, 582, 601	602, 606, 599	530, 513, 513, 507, 501, 511	909			Weak pos ≥1.2, Pos ≥1.5	Median channel shift	
58	2.54	7.28	6.8	14.2	3.54	38			1.5x Neg mean	Log median	
62	1.2	5.50	5.24	11.20	1.15	40.4			RMF >2.5	Median log channel	98