

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B03/2016 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 15TH MARCH 2016

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A29; B37, B44; Cw6, Cw16; DR7, DR15; DQ2, DQ6

Summary of Results												
T-cells					B-cells							
Total tested	22	23	21	21	20	20	17	18				
Positive	22	0	18	21	20	0	10	13				
Negative	0	23	3	0	0	20	7	5				
NT/Equivocal	1	0	2	2	0	0	3	2				
% Positive	100.0%	0.0%	85.7%	100.0%	100.0%	0.0%	58.8%	72.2%				
% Negative	0.0%	100.0%	14.3%	0.0%	0.0%	100.0%	41.2%	27.8%				
<b>Consensus</b>	<b>Positive</b>	<b>Negative</b>	<b>Positive</b>	<b>Positive</b>	<b>Positive</b>	<b>Negative</b>	<b>Not Assessed</b>	<b>Not Assessed</b>				
HLA Antibody Specificity (Defined By CDC)	DR7, DQ2	A30, A31	A1	B15,B57	DR7, DQ2	A30, A31	A1	B15,B57				
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	Positive	Negative	Positive	Positive					16-Mar	17-Mar		
11	Positive	Negative	Positive	Positive	Positive	Negative	Equivocal	Positive	14-Mar	17-Mar		
12	Positive	Negative	Positive	Positive	Positive	Negative	Positive	Positive	16-Mar	16-Mar		
14	Positive	Negative	Positive	Positive	Positive	Negative	Equivocal	Positive	16-Mar	16-Mar		
15	Positive	Negative	Positive	Equivocal	Positive	Negative	Positive	Positive	16-Mar	16-Mar		
19	Positive	Negative	Positive	Positive	Positive	Negative	Equivocal	Equivocal	16-Mar	17-Mar		
20	Positive	Negative	Positive	Positive	Positive	Negative	Positive	Positive	16-Mar	16-Mar		
23	Positive	Negative	Positive	Positive	Positive	Negative	Positive	Positive	16-Mar	16-Mar		
24	Positive	Negative	Negative	Positive	Positive	Negative	Negative	Positive	16-Mar	17-Mar		
25	Positive	Negative	Positive	Positive	Positive	Negative	Negative	Negative	16-Mar	17-Mar		
28	Equivocal	Negative	Negative	Equivocal	Positive	Negative	Negative	Negative	16-Mar	16-Mar		
34	Positive	Negative	Negative	Positive	Positive	Negative	Negative	Equivocal	16-Mar	16-Mar		
35	Positive	Negative	Positive	Positive						17-Mar		
38	Positive	Negative	Positive	Positive	Positive	Negative	Positive	Positive	16-Mar	16-Mar		
39	Positive	Negative	Equivocal	Positive	Positive	Negative	Negative	Negative	16-Mar	16-Mar		
41	Positive	Negative	Positive	Positive	Positive	Negative	Positive	Positive	16-Mar	16-Mar		
42	Positive	Negative	Positive	Positive	Positive	Negative	Weak Positive	Weak Positive	16-Mar	17-Mar		
45	Positive	Negative	Positive	Positive					16-Mar	16-Mar		
48	Positive	Negative	Positive	Positive	Positive	Negative	Positive	Positive	16-Mar	16-Mar		
51	Positive	Negative	Positive	Positive	Positive	Negative	Positive	Positive	16-Mar	17-Mar		
54	Positive	Negative	Positive	Positive	Positive	Negative	Negative	Negative	16-Mar	17-Mar		
58	Positive	Negative	Equivocal	Positive	Positive	Negative	Negative	Negative	16-Mar	16-Mar		
62	Positive	Negative	Positive	Positive	Positive	Negative	Positive	Positive	16-Mar	16-Mar		

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T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B03/2016 (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	6.4	0.6	1.9	2.2	1.24	5.6			>1.5 trimmed mean	Median x (log)	95
11	627.5	66.5	110.5	309.5	68	114			80.6 (2SD)	Median log channel	90
12	429	108	353	316	114	4989			2SD	MCF	95
14	2155.5	686	1476	1985	630.5	3560.5			1.5x mean neg	Median log channel	
15	1396	216	716		205	12494					
	RMF 6.8	1	3.5						RMF >1.5	Median	
19	2.565	0.272	0.538	1.249	0.24	4.854					
20	6.175	0.533	1.455	3.898	0.395	1.465			40 linear channel shift	MCF	
23	23.95	5.64	10.79	14.96	5.81	62.64			3SD	MCF	>90
24	1245	173	254	718	211.5	2600, 359			1.5x neg	MFCN	90
25	635	73	167	368	70	3759			RMF >1.3	Median log channel	
28	185	46	81	131	65	740			≥1.6-3 (equivocal), >3.1 (pos)	MFI	
	Ratio 2.9	0.7	1.2	2							
34	52.8	11.2	12.7	27	11.97	69			2SD 15.28	Median FLI	85
35	21.36	1.99	3.9	9.01			71.93	8.23	Mean +3SD	MFI	>90
38	252.4	22.5	187.7	208.5	0	387.4			46 linear channel shift	Linear channel shift	
39	0.65	0.16	0.23	0.55	0.15	2.91			>1.5 RMF	Median log fluorescence	
41	1107	239	608	801	240	11965			RMF ≥1.5	Median log channel	95
42	1168	119	380	849	136		23914	415	RMF ratio >1.3	Median log channel	95
45	344.5	204.5	302.5	337	213	629			40 channel shift (253)	Median channel value	
48	1.4	0.58	0.94	1.11	0.54	5.98			>1.3 RMF	Median log channel	
51	24.28	4.89	12.99	17.17	4.61	239			7.11		95
54	519, 519	243, 231	424, 439	497, 500	202, 211, 219, 206	861, 548			Neg: test ratio ≥1.2	Median channel shift	
58	7.77	1.34	1.79	3.14	1.34	4.54			1.3x Neg mean	Log median	
62	4.28	0.6	1.17	2.37	0.486	3.04			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	7785	515	801	960	545.5	2673			872.8 (1.6 RMF)	Median log channel	90
12	5227	261	799	599	301	9681			2SD	MCF	95
14	17023.5	2178.5	3311	2584.5	2373.5	15708			1.5x mean neg	Median log channel	
15	11005	991	1704	1612	862	15430				Median	
	RMF 12.7	1.1	2	1.9					RMF >1.5		
19	24.069	2.387	3.74	3.673	2.586	32.97					
20	75.3	2.145	5.295	6.465	2.44	5.955			40 linear channel shift	MCF	
23	212.82	8.35	26.88	26.1	20.72	143.3			2SD	MCF	>90
24	4151	206	434	1007	562.5	4678, 444			2x neg	MFCN	90
25	9463	668	1092	1009	1040	11374			RMF >1.3	Median log channel	
28	909	54	96	124	67	810			≥2-3.5 (equivocal), ≥3.6 (pos)	MFI	
	Ratio 13.6	0.8	1.4	1.9							
34	129.7	18.6	26.6	28.9	20.35	118			2SD 28.96	Median FLI	85
38	296.8	22	82.9	72.9	0	334			63 linear channel shift	Linear channel shift	
39	8.19	0.42	0.69	0.77	0.51	6.12			>2.0 RMF	Median log fluorescence	
41	6862	526	1215	1195	640	17244			RMF ≥1.5	Median log channel	95
42	10856	605	1428	1731	915		66973	3686	RMF ratio >1.5	Median log channel	95
48	16.29	0.96	1.86	1.61	1.11	12.74			>1.3 RMF	Median log channel	
51	123.6	10.04	20.11	20.93	9.92	299			16.4		95
54	789, 803, 762	529, 535, 504	563, 574, 575	540, 559, 555	512, 534, 511, 529	915, 874			Neg: test ratio ≥1.2	Median channel shifts	
58	63.07	2.99	5.64	5.7	4.34	50.6			1.5x neg mean	Log median	
62	58.6	1.73	5.17	5.34	1.96	61.8			RMF >2.5	Median log channel	98