

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B05/2016 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 17TH MAY 2016

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A2; B8, B60; Cw7, Cw10; DR4, DR17; DQ2, DQ7

		Summary of Results										
		T-cells				B-cells						
Total tested		22	22	20	21	20	20	18	20			
Positive		0	22	18	0	4	20	14	4			
Negative		22	0	2	21	16	0	4	16			
NT/Equivocal		1	1	3	2	0	0	2	0			
% Positive		0.0%	100.0%	90.0%	0.0%	20.0%	100.0%	77.8%	20.0%			
% Negative		100.0%	0.0%	10.0%	100.0%	80.0%	0.0%	22.2%	80.0%			
Consensus		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative			
HLA Antibody Specificity (Defined By CDC)		B12	B12	A1	B15	B12	B12	A1	B15			
		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		Negative	Positive	Positive	Negative					18-May	20-May	Serum 4 - Insufficient T-cell events
11		Negative	Positive	Positive	NT	Positive	Positive	Positive	Positive			
12		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	18-May	18-May	
14		Negative	Positive	Positive	Negative	Negative	Positive	Negative	Negative	18-May	18-May	
15		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	18-May	18-May	
19		Negative	Positive	Positive	Negative	Negative	Positive	Negative	Negative	18-May	19-May	
20		Negative	Positive	Positive	Negative	Positive	Positive	Positive	Negative	18-May	18-May	
23		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	18-May	18-May	
24		Negative	Positive	Equivocal	Negative	Negative	Positive	Equivocal	Negative	18-May	19-May	
25		Negative	Positive	Positive	Negative	Negative	Positive	Negative	Negative	18-May	19-May	
28		Equivocal	Equivocal	Equivocal	Equivocal	Negative	Positive	Equivocal	Negative	18-May	18-May	
34		Negative	Positive	Negative	Negative	Positive	Positive	Positive	Negative	18-May	18-May	
35		Negative	Positive	Positive	Negative					18-May	19-May	
38		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	18-May	18-May	
39		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	18-May	18-May	
41		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	18-May	18-May	
42		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	18-May	18-May	
45		Negative	Positive	Positive	Negative					18-May	19-May	
48		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	18-May	18-May	
51		Negative	Positive	Equivocal	Negative	Negative	Positive	Positive	Positive	18-May	19-May	
54		Negative	Positive	Negative	Negative	Negative	Positive	Negative	Negative	18-May	19-May	
58		Negative	Positive	Negative	Negative	Positive	Positive	Positive	Positive	18-May	18-May	
62		Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	18-May	18-May	

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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	0.7	2.7	3.2	0.4	1.06	29.3			>1.5 x trimmed mean	Median x (log)	95
11	48	99	80		64, 56, 48, 55	219, 654			67.1, Mean +2SD	Median log channel	
12					76	1883			Mean channel shift >50	MCF	95
14	451.5	1036.5	1026	497.5	433.5	10161.5			1.5x mean NEG	Median log channel	
15	0.92	3.1	3.4	1.3	139.5	8973.5			RMF >1.5	Median	95
19	0.195	0.718	0.409	0.223	0.222	12.822				Log median x	
20	0.38	1.243	0.899	0.445	0.367	1.542			40 LCS	MCF	80
23	4.23	6.57	4.65	4.18	3.7	46.1			+3SD	MCF	
24	154.6	322.3	189.3	131	177.5	3116, 982			1.5x negative	MFCN	90
25	54	196	145	69	56	2637			RMF >1.3	Median log channel	
28	83	127	126	82	51	1028			≥1.6-3 (equivocal), >3.1 (pos)	MFI	
	1.6	2.5	2.5	1.6							
34	4.1	7	4.9	4.1	5.3	22.2			2SD	MFI	95
35	1.82	5.71	3.59	1.71	1.99	12.16			3.13, 3SD + mean NC	Median log channel	
38	0	189.5	189.5	45.1	0	446			Linear channel shift >46	Linear channel shift	
39	0.13	0.29	0.22	0.14	0.14	5.29			>1.5 RMF	Median log fluorescence	
41	194	549	420	225	233	15050			>1.5 RMF (350)	Median Fluorescence	95
42	207	479	474	214	226		10629	341	RMF ratio >1.3	Median log channel	95
45	160	256	263	181	167	564			40 channel shift (207)	Median channel value	
48	0.51	1.05	1.01	0.59	0.53	7.64			>1.3 RMF	Median log channel	100
51	3.6	6.9	6.2	3.72	3.91	52.8			6.41		90
54	188, 156	399, 392	402, 397	194, 208	243, 219, 237	822			Test: AB MESF ratio, ≥1.2 (weak pos), ≥1.5 (pos)	Median channel shift	
58	234	470	248	240	209	1121			281 2SD	Median channel	
62	0.44	1.24	0.871	0.46	0.39	12.9			>1.5	Median log channel	95

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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	807	2016	802	962	394, 534, 490, 418	5359, 8660			734.4, 1.6x RMF	Median log channel	
12					201	4221			Mean channel shift >50	MCF	95
14	2537.5	7907	2996.5	2019.5	2222	23800			1.5x mean neg	Median log channel	
15	0.9	3.8	1.5	1.3	1368.5	25558.5			RMF >1.5	Median	95
19	4.627	17.254	5.507	3.724	3.342	48.976				Log median x	
20	4.746	24.633	5.918	2.581	1.992	6.313			40 LCS	MCF	80
23	4.23	6.57	4.65	4.18	10.8	90.1			+2SD	MCF	
24	844.7	2191.3	495.7	433.7	791.5	6599, 2983			2x neg	MFCN	90
25	827	3396	994	625	776	9314			RMF >1.3	Median log channel	
28	132	581	205	116	84	1037			≥2-3.5 (equivocal), ≥3.6 (pos)	MFI	
	1.6	6.9	2.4	1.4							
34	11.2	28.1	12	9.5	10.1	40.2			2SD	MFLI	95
38	0	178	55.9	29.4	0	354.7			Linear channel shift >35	Linear channel shift	
39	0.82	4.35	1.3	0.61	0.6	11.8			>2 RMF	Median log fluorescence	
41	758	4254	1120	973	615	26311			>1.5 RMF (923)	Median fluorescence	95
42	913	3323	1195	622	721		28896	1695	RMF ratio >1.5	Median log channel	95
48	1.65	9.57	2.75	1.31	1.33	17.18			>1.3 RMF	Median log channel	100
51	9.15	41.65	12.82	22.24	6.25	83.54			12.75		90
54	495, 499, 506	670, 675, 653	550, 554, 550	514, 509	501, 508, 517	980			Test: AB MESF ratio, ≥1.2 (weak pos), ≥1.5 (pos)	Median channel shift	
58	1913	6368	1741	2350	953	6485			1429, 1.5x mean	Median channel	
62	4.3	26.45	6.39	3.64	1.83	54.1			>2.5	Median log channel	95