

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B10/2015 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 15TH SEPTEMBER 2015

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A30; B7, B13; Cw6, Cw7; DR4, -; DQ8, -

Summary of Results												
T-cells				B-cells								
Total tested	22	21	22	22	18	19	19	18				
Positive	22	2	1	1	11	19	2	5				
Negative	0	19	21	21	7	0	17	13				
NT/Equivocal	1	2	1	1	2	1	1	2				
% Positive	100.0%	9.5%	4.5%	4.5%	61.1%	100.0%	10.5%	27.8%				
% Negative	0.0%	90.5%	95.5%	95.5%	38.9%	0.0%	89.5%	72.2%				
Consensus	Positive	Negative	Negative	Negative	Not Assessed	Positive	Negative	Not Assessed				
HLA Antibody Specificity (Defined By CDC)	A3, A11, DR7	DR1	DR3	DR7, DQ2	A3, A11, DR7	DR1	DR3	DR7, DQ2				
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	Equivocal	Negative	Negative					16-Sep	16-Sep		
11	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Negative	16-Sep	17-Sep		
12	Positive	Negative	Negative	Negative	Positive	Positive	Positive	Positive	16-Sep	16-Sep		
14	Positive	Negative	Negative	Negative	Negative	Positive	Negative	Positive	16-Sep	16-Sep		
15	Positive	Negative	Negative	Negative	Negative	Positive	Negative	Negative	17-Sep	17-Sep		
19	Positive	Positive	Negative	Negative	Positive	Positive	Negative	Negative	16-Sep	17-Sep		
20	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Positive	16-Sep	16-Sep		
23	Positive	Positive	Positive	Weak Positive	Positive	Positive	Positive	Positive	16-Sep	16-Sep		
24	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Negative	16-Sep	17-Sep		
25	Positive	Negative	Negative	Negative	Negative	Positive	Negative	Negative	16-Sep	16-Sep		
28	Weak Positive	Negative	Negative	Negative	Negative	Weak Positive	Negative	Negative	16-Sep	16-Sep		
34	Positive	Negative	Negative	Negative	Equivocal	Positive	Negative	Negative	16-Sep	16-Sep		
35	Positive	Negative	Negative	Negative					16-Sep	17-Sep		
38	Positive	Negative	Negative	Negative	Negative	Positive	Negative	Negative	16-Sep	16-Sep		
39	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Negative	16-Sep	16-Sep		
41	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Negative	16-Sep	16-Sep		
42	Positive	Negative	Negative	Negative	Negative	Weak Positive	Negative	Negative	16-Sep	17-Sep		
45	Positive	Negative	Negative	Negative					16-Sep	16-Sep		
48	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Negative	17-Sep	17-Sep		
51	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Positive	16-Sep	17-Sep		
54	NT	NT	NT	NT	NT	NT	NT	NT	Samples did not arrive - Lost in the post			
58	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Equivocal				
62	Positive	Negative	Negative	Negative	Negative	Positive	Negative	Negative				

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T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B10/2015 (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?	Viability (%)
9	2.26		0.53	0.49	0.62	10.55			>1.5x trimmed mean	Median log channel	No	100
11	130	50	46	47	63	100			>85 (mean +2SD)	Median log channel	No	
12	108	23	13	10	99	286			MCS >50	Mean channel shift	Yes	
14	1681	955	907	842	771	6258			1.5x Negative median log channel	Median log channel	Yes	
15	Median 597.5 RMF 2.7	263 1.2	233 1	230 1	222.5	14533			RMF >1.5		No	
19	0.979	0.29	0.231	0.208	0.219	5.969				Log median x	No	
20	1.245	0.377	0.339	0.325	0.295	0.766			≥40 linear channel shift	Median log channel	No	90
23	51.63	13.8	7.48	6.35	2.46	19.03			+3SD	Median channel fluorescence	Yes	
24	879	223	199	198	228		11985	623	>1.5 RR compared to AB negative	MFCN		90
25	222	71	69	65	70	3930			RMF >1.3	Median log channel	Yes	
28	141	98	94	80	66	898			Ratio ≥1.6 vs negative control	MFI	No	
34	8.8	5.1	3.4	3.5	4.4	31.5			Mean ±2SD (5.8)		No	90
35	5.89	1.64	1.38	1.36	1.36	7.55			1.65 3x SD+mean of neg control	Median log channel	Yes	
38	101.6	0	-45.1	0	0	465			>46	Linear channel shift	Yes	100
39	0.51	0.22	0.22	0.2	0.21	4.55			≥1.5 RMF	Median log fluorescence	No	
41	461	215	191	187	215	11568			RMF ≥1.5	Median log channel	No	95
42	326	199	163	172	194		6888	496	RMF ratio >1.3	Mean log channel	No	
45	262	177	165	167	181	626			≥221 MCV (≥40 channel shift)	Median channel value	Yes	
48	0.96	0.57	0.56	0.55	0.54	4.29			≥1.3 RMF		Yes	
51	9.6	3.9	3.6	3.65	3.36	78.7			5.7		No	
54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
58	2.19	1.22	1.19	1.21	1.26	5.04			1.35 (2SD)	Log median		
62	1.75	0.51	0.49	0.9	0.44	1.87			RMF >1.5	Median log channel	Yes	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	FCXM NIBSC negative control used?	Viability (%)
11	837	1016	418	604	429	3661			>687 (-1.6 RMF)	Median log channel	No	
12	130	164	81	119	450	2611			MCS >50	Mean channel shift	Yes	
14	5294	8602	4447	5478	3543	16712			1.5x Negative median log channel	Median log channel	Yes	
15	Median 2395	3323.5	1778	2352	2064.5	20561.5						
	RMF 1.2	1.6	0.9	1.1					RMF >1.5		No	
19	6.357	7.925	4.17	5.708	4.513	42.032				Log median x	No	
20	6.67	10.99	3.71	6.96	4.56	6.81			≥40 linear channel shift	Median log channel	No	90
23	62.59	50.94	13.74	29.78	8.5	98.6			+2SD	Median channel fluorescence	Yes	
24	2875	2364	754	1266	1265		18169	2593	≥2 RR compared to AB negative	MFCN	Yes	90
25	907	1592	615	916	1058	11449			RMF >1.3	Median log channel	Yes	
28	201	320	124	169	132	847			Ratio ≥2 vs negative control	MFI	No	
34	39.9	45.1	25.8	32.4	33	75.4			Mean ±2SD (39.8)		No	90
38	28.6	49.3	-67.7	-3.4	0	329.1			>35	Linear channel shift	Yes	100
39	1.64	2.43	1.03	1.47	0.73	12.15			≥2 RMF	Median log fluorescence	No	
41	1842	2697	875	1483	1174	26231			RMF ≥1.5	Median log channel	No	95
42	712	1223	368	689	852		18002	2733	RMF ratio >1.5	Mean log channel	No	
48	1.47	1.22	0.7	0.68	0.79	9.12			≥1.3 RMF		Yes	
51	18.9	34.8	8.06	13.34	6.95	135			12.5		No	
54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
58	6.25	8.66	2.57	5.15	3.91	35.5			4.75	Log median	Yes	
62	5.56	8.35	1.8	5.27	3.1	48.1			RMF >3	Median log channel	Yes	95