

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B07/2015 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 07TH JULY 2015

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A2; B57, - ; Cw6, - ; DR4, DR7; DQ7, DQ9

Summary of Results											
T-cells					B-cells						
Total tested	23	23	23	22	20	20	20	19			
Positive	1	0	23	19	20	0	20	7			
Negative	22	23	0	3	0	20	0	12			
NT/Equivocal	0	0	0	1	0	0	0	1			
% Positive	4.3%	0.0%	100.0%	86.4%	100.0%	0.0%	100.0%	36.8%			
% Negative	95.7%	100.0%	0.0%	13.6%	0.0%	100.0%	0.0%	63.2%			
<b>Consensus</b>	<b>Negative</b>	<b>Negative</b>	<b>Positive</b>	<b>Positive</b>	<b>Positive</b>	<b>Negative</b>	<b>Positive</b>	<b>Not Assessed</b>			
HLA Antibody Specificity (Defined By CDC)	DR7, DQ2	B12	Cw5, DR4	A3	DR7, DQ2	B12	Cw5, DR4	A3			
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	Negative	Negative	Positive	Positive					08-Jul	08-Jul	Samples arrived 24 hours later than expected.
11	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Negative	08-Jul	09-Jul	
12	Negative	Negative	Positive	<b>Negative</b>	Positive	Negative	Positive	Negative	08-Jul	08-Jul	
14	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Negative	08-Jul	08-Jul	
15	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Negative	08-Jul	08-Jul	
19	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Negative	08-Jul	09-Jul	
20	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Positive	08-Jul	08-Jul	
23	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Positive	08-Jul	08-Jul	
24	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Positive	08-Jul	09-Jul	
25	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Positive	08-Jul	09-Jul	
28	<b>Weak Positive</b>	Negative	Positive	Weak Positive	Positive	Negative	Positive	Negative	08-Jul	08-Jul	
34	Negative	Negative	Positive	<b>Equivocal</b>	Positive	Negative	Positive	Negative	08-Jul	08-Jul	
35	Negative	Negative	Positive	Positive					08-Jul	09-Jul	
38	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Positive	08-Jul	08-Jul	
39	Negative	Negative	Positive	<b>Negative</b>	Positive	Negative	Positive	Negative	09-Jul	09-Jul	
41	Negative	Negative	Positive	<b>Negative</b>	Positive	Negative	Positive	Negative	08-Jul	08-Jul	
42	Negative	Negative	Positive	Weak Positive	Positive	Negative	Positive	Negative	08-Jul	09-Jul	
45	Negative	Negative	Positive	Positive					08-Jul	09-Jul	
48	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Positive	08-Jul	08-Jul	
51	Negative	Negative	Positive	Positive	Positive	Negative	Positive	<b>Equivocal</b>	09-Jul	10-Jul	
54	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Negative	08-Jul	09-Jul	
58	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Positive	08-Jul	08-Jul	
62	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Negative	08-Jul	08-Jul	

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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	0.93	0.84	12.23	1.94	0.97	14.9			> 1.5 x trimmed mean	Median Log Channel	No	100
11	42	33	493	108	40	276			46 (2SD)	Median Log Channel	No	95
12	114	102	586	156	120	157			Average MCF of Neg. con. + 1SD	Median Channel Fluorescence	Yes	N/A
14	785	687	3681	1260	602.5	5814			1.5 x negative	Median Channel Fluorescence	Yes	
15	223.5	171.5	2924	531.5	191	17428.5			RMF > 1.5	Median Log Channel	No	
	1.17	0.9	15.31	2.78						RMF		
19	0.217	0.185	2.229	0.668	0.216	14.543				Log Median x	No	
20	0.383	0.312	3.998	0.605	0.295	1.085			40 linear channel shift	Median Channel Fluorescence	No	100
23	3.12	2.9	13.69	4.46	2.51	54.9			+ 3SD	Median Channel Fluorescence	Yes	
24	238	187	1870	756	228		14769	1260	> 1.5 RR	MFCN	Yes	90
25	83	67	1360	260	69	8518			> 1.3 RMF	Median Log Channel	Yes	N/A
28	58	53	225	71	35	670			Ratio above 1.5 compared to neg. con.	MFI	No	
34	5.4	6.01	19.23	8.52	6.48	19			Median + 2SD		No	95
35	1.51	1.36	15.81	4.86	1.45	5.5			1.76 3SD + Negative Control Mean	Median Log Channel	Yes	
38	45.1	0	390.4	187.7	0	491.6			≥ 46 linear channel shift	Linear Channel Shift	Yes	
39	0.21	0.19	1.04	0.34	0.22	6.36			≥ 1.5 RMF	Median Log Fluorescence	No	NT
41	232	201	1385	404	216	31485			RMF ≥ 1.5	Median Log Channel	No	100
42	157	143	463	261	153		7949	335	RMF ratio > 1.3	Median Log Channel	No	
45	182	156	432	253	156	609			≥ 196 MCV (≥ 40 channel shift)	Median Channel Value	Yes	
48	0.43	0.4	3.05	0.69	0.4	7.61			≥ 1.3 RMF	Median Log Channel	Yes	N/A
51	2.56	2.56	17.32	5.78	3.19	225			5.19		No	
54	231, 235, 233	209, 214, 230	550, 555, 539	374, 378, 379	253, 258, 258, 249, 264, 248	835			≥ 1.2 x mean AB serum MESF	Median Channel Shift	No	NT
58	0.87	0.82	4.81	1.49	0.85	1.87			1.5 x neg mean = 1.27	Log Median	Yes	
62	0.338	0.357	1	0.585	0.3173	3.27			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	2647	431	2384	543	460	1946			736 (1.6 RMF)	Median Log Channel	No	95
12	2987	855	2700	1057	1164	1862			Average MCF of neg. con. + 1SD	Median Channel Fluorescence	Yes	N/A
14	10533	2691	7009	3950	2650.5	14610			1.5 x negative	Median Channel Fluorescence	Yes	
15	7663.5	1486	6812	1783	1935.5	27148.5			RMF > 1.5	Median Log Channel	No	
	3.96	0.77	3.52	0.92						RMF		
19	12.044	2.71	10.666	3.9	2.693	30.134				Log Median x	No	
20	22.08	1.99	20.43	3.31	1.75	4.31			40 linear channel shift	Median Channel Fluorescence	No	100
23	45	4.1	30.22	9.11	5.46	76.99			+ 2SD	Median Channel Fluorescence	Yes	
24	8695	632	5207	2729	1118		17254	1930	≥ 2.0 RR	MFCN	Yes	90
25	4324	810	4793	1305	911	14205			> 1.3 RMF	Median Log Channel	Yes	N/A
28	601	104	555	151	100	854			Ratio above 1.9 compared with neg. con.	MFI	No	
34	55.43	22.6	49.3	20.83	17.18	47.5			Median + 2SD		No	95
38	215.3	22	212.7	63.2	0	2495			≥ 63 linear channel shift	Linear Channel Shift	Yes	
39	3.97	0.53	3.27	0.61	0.73	10.6			≥ 2.0 RMF	Median Log Fluorescence	No	NT
41	4766	634	3580	976	802	33499			RMF ≥ 1.5	Median Log Channel	No	100
42	1981	301	1391	457	432		29101	1916	RMF ratio > 1.5	Median Log Channel	No	
48	5.94	0.66	6.11	1.27	0.84	8.64			≥ 1.3 RMF	Median Log Channel	Yes	N/A
51	69.78	5.6	58.86	9.78	7.07	321			12.07		No	
54	705, 698	533, 530	691, 688	546, 567	535, 550, 533, 550, 533, 537	797			≥ 1.2 x mean AB serum MESF	Median Log Channel	No	
												NT
58	22.7	2.67	22.2	5.27	2.91	28.1			1.5 x neg mean = 4.37	Log Median	Yes	
62	6.845	1.305	3.88	1.85	1.0693	25.4			RMF > 3	Median Log Channel	Yes	90