

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B08/2015 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 07TH JULY 2015

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A3; B45, B57; Cw6, - ; DR7, DR17; DQ2, DQ8

		Summary of Results										
		T-cells				B-cells						
Total tested	23	23	23	23	20	20	20	20				
Positive	23	23	2	1	14	17	20	0				
Negative	0	0	21	22	6	3	0	20				
NT/Equivocal	0	0	0	0	0	0	0	0				
% Positive	100.0%	100.0%	8.7%	4.3%	70.0%	85.0%	100.0%	0.0%				
% Negative	0.0%	0.0%	91.3%	95.7%	30.0%	15.0%	0.0%	100.0%				
Consensus	Positive	Positive	Negative	Negative	Not Assessed	Positive	Positive	Negative				
HLA Antibody Specificity (Defined By CDC)	A3	Cw5, DR4	DR7, DQ2	B12	A3	Cw5, DR4	DR7, DQ2	B12				
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	Positive	Negative	Negative					08-Jul	08-Jul		
11	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	08-Jul	09-Jul		
12	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	08-Jul	08-Jul		
14	Positive	Positive	Negative	Negative	Negative	Positive	Positive	Negative				
15	Positive	Positive	Negative	Negative	Negative	Positive	Positive	Negative	08-Jul	08-Jul		
19	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	08-Jul	09-Jul		
20	Positive	Positive	Negative	Negative	Negative	Positive	Positive	Negative	08-Jul	08-Jul	Positive control does not reach our minimum acceptable criteria. In normal practice this B-cell FCXM would be void and repeated. Very high AB serum value.	
23	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	08-Jul	08-Jul		
24	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	08-Jul	09-Jul		
25	Positive	Positive	Negative	Negative	Negative	Negative	Positive	Negative	08-Jul	09-Jul		
28	Positive	Positive	Weak Positive	Negative	Negative	Negative	Positive	Negative	08-Jul	08-Jul		
34	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	08-Jul	08-Jul		
35	Positive	Positive	Negative	Negative					08-Jul	09-Jul		
38	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	08-Jul	08-Jul		
39	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	09-Jul	09-Jul		
41	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	08-Jul	08-Jul		
42	Positive	Positive	Negative	Negative	Weak Positive	Positive	Positive	Negative	08-Jul	09-Jul		
45	Positive	Positive	Negative	Negative					08-Jul	08-Jul		
48	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	08-Jul	09-Jul		
51	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	09-Jul	10-Jul		
54	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	08-Jul	09-Jul		
58	Positive	Positive	Positive	Positive	Positive	Positive	Positive	Negative	08-Jul	08-Jul		
62	Positive	Positive	Negative	Negative	Negative	Negative	Positive	Negative	08-Jul	08-Jul		

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T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B08/2015 (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	2.38	8.02	0.76	0.63	0.78	55.1			> 1.5 x trimmed mean	Median x (log)	No	100
11	361	405	47	48	44	104			49 (2SD)	Median log channel	No	95
12	299	659	109	105	100	141			Average MCF of Neg. con. + 1SD	Median Channel Fluorescence	Yes	
14	1968	3155	657	612	482.5	9610			1.5 x negative	Median lof channel	Yes	
15	793.5	1776	182.5	162.5	170.5	11110			RMF > 1.5	Median log channel	No	100
	4.65	10.4	1.07	0.95						RMF		
19	1.862	1.673	0.208	0.234	0.200	6.531				Log Median x	No	
20	2.26	4.30	0.391	0.395	0.297	1.305			40 linear channel shift	Median Channel Fluorescence	No	100
23	19.11	17.76	4.46	3.45	3.04	48.13			+ 3SD	Median Channel Fluorescence	Yes	
24	1978	1402	178	198	174		6151	925	> 1.5 RR	MFCN	Yes	90
25	572	1080	86	82	65	7236			> 1.3 RMF	Median Log Channel	Yes	
28	121	181	61	48	35	796			Ratio above 1.5 compared to neg. con.	MFI	No	
34	17.63	16.73	4.10	3.72	4.33	37.5			Median +2SD		No	95
35	13.43	10.17	1.45	1.61	1.43	13.43			1.78 3SD+mean neg control	Median Log Channel	Yes	
38	315	332.9	45.1	45.1	0	482.2			≥46 linear channel shift	Linear Channel Shift	Yes	
39	0.71	0.99	0.21	0.20	0.22	5.47			≥ 1.5	Median Log Fluorescence	No	
41	853	858	160	160	178	8519			RMF ≥ 1.5	Median Log Channel	No	100
42	596	796	167	147	131		12577	329	RMF ratio > 1.3	Median Log Channel	No	
45	312	386	191	181	186	624			≥ 226 (≥ 40 channel shift)	Median Channel Value	Yes	
48	1.45	1.93	0.51	0.49	0.44	7.96			≥ 1.3 RMF		Yes	
51	25.71	13.24	3.38	3.58	3.26	179			5.26		No	
54	505, 500	561, 562	287, 288	288, 276	247, 260, 239, 254	767			≥1.2 x MESF value neg control	Median Channel Value	No	
58	4.28	2.52	1.18	1.34	0.76	3.8			1.5 x mean = 1.14	Log Median		
62	1.695	2.725	0.3615	0.3915	0.335	2.42			RMF > 1.5	Median Log Channel	Yes	99

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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	1347	1474	3334	705	828	2976			1325 (1.6 RMF)		No	95
12	1045	1722	3415	763	1144	1759			Average MCF of neg. con. + 1SD	Median Channel Fluorescence	Yes	
14	6060	6963	13333	3810	4062.5	21392.5			1.5 x negative	Median log channel	Yes	
15	2526.5	3212.5	6249	1300	1818.5	19348			RMF > 1.5	Median log channel	No	100
	138	1.8	3.4	0.7						RMF		
19	7.819	7.308	16.132	5.035	4.817	43.572				Log Median x	No	
20	9.33	14.33	34.5	6.635	6.95	9.08			40 linear channel shift	Median Channel Fluorescence	No	100
23	11.72	18.80	35.12	5.37	5.5	116.53			+ 2SD	Median Channel Fluorescence	Yes	
24	3132	2121	5536	715	1079		11048	2569	≥2.0 RR	MFCN	Yes	90
25	2288	2548	5899	1548	1919	14433			> 1.3 RMF	Median Log Channel	Yes	
28	299	352	855	160	210	1077			Ratio above 1.9 compared with neg. con.	MFI	No	
34	54.67	50.60	87.53	34.23	32.87	145			Median +2SD		No	95
38	58.1	71.9	136.4	-45.8	0	210.3			≥35 linear channel shift	Linear Channel Shift	Yes	
39	1.66	2.14	5.63	0.83	0.68	17.15			≥ 2.0	Median Log Fluorescence	No	
41	1512	1503	2584	569.7	871	13631			RMF ≥ 1.5	Median Log Channel	No	100
42	1500	2133	4956	413	947		48937	3401	RMF ratio > 1.5	Median Log Channel	No	
48	4.04	4.31	9.71	2.39	2.83	19.40			≥ 1.3 RMF		Yes	
51	37.52	27.98	110.95	15.05	16.7	271			20.3		No	
54	658, 645, 642	672, 661, 660	733, 746, 725	607, 594, 581	608, 609, 601, 606, 600	852			≥1.2 x MESF value neg control	Median Channel Value	No	
58	10	6.78	19.6	3	2.75	22.9			1.5 x mean = 4.13	Log Median		
62	4.585	5.51	8.47	2.23	2.643	23.8			RMF > 3	Median Log Channel	Yes	95